# Service Manua

dbx /Dolby NR Equipped Stereo Cassette Deck

RS-B608R

# DOLBY B.C NR HX PRO



### Color

(S) ... Silver Type (K) ... Black Type

# Area

Color	Area
(S) (K)	(E) Continental Europe
(S) (K)	(EK) United Kingdom.
(S) (K)	(EG) F.R. Germany.
(S) (K)	(EH) Holland.
(S) (K)	(XA) Asia, Latin
	America, Middle
	Near East, Africa
	and Oceania.
(S) (K)	(XL) Australia.
(S) (K)	(XB) Saudi Arabia.

# SPECIFICATIONS

## CASSETTE DECK SECTION

Deck system	Stereo cassette deck
Track system	4-track, 2-channel
Heads some allowed to receive the	
REC/PLAY and a dead and a	Solid Permalloy head
Erasing	Double-gap ferrite head
Motors Electro	nically controlled DC motor
Recording system Bias frequency	AC bias 80 kHz
Erasing system	AC erase
Tape speed	4.8 cm/sec. (1-7/8 ips)
Frequency response	
METAL	20 Hz~19 kHz
	30 Hz~18 kHz (DIN)
CrO <sub>2</sub>	20 Hz~18 kHz
	30 Hz~17 kHz (DIN)
NORMAL / bassy	20 Hz~17 kHz
	30 Hz~16 kHz (DIN)
Dynamic Range (with dbx on)	110 dB (1 kHz)
Max. Input level improvement (with	1 dbx on) 10 dB
S/N (signal level = max reco	ording level, CrO <sub>2</sub> type tape)
dbx on	92 dB (A weighted)
Dolby C NR on	74 dB (CCIR)
Dolby B NR on	66 dB (CCIR)
NR off	56 dB (A weighted)

Wow and flutter

0.08% (WRMS) ±0.2% (DIN)

Fast Forward and Rewind Time

Approx. 100 seconds with C-60 cassette tape

Input sensitivity and impedance

0.25 mV/400  $\Omega$ ~10 k $\Omega$ MIC  $60 \text{ mV}/47 \text{ k}\Omega$ LINE Output voltage and impedance  $400 \text{ mV/3 k}\Omega$ 

LINE **HEADPHONES** 

30 mV/8 Ω

### **GENERAL**

Power consumption Power supply

22W

For continental Europe

AC 50 Hz/60 Hz, 220V

For United Kingdom and others

AC 50 Hz/60 Hz, 110V/127V/220V/240V

Dimensions (W×H×D)

430 × 114.5 × 287 mm

Weight

 $(16-15/16" \times 4-1/2" \times 11-5/16")$ 4.3 kg (9.5 lb.)

Specifications are subject to change without notice. Weight and dimensions are approximate.

- \* HX Pro headroom extension originated by Bang Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation.
  - "DOLBY", the double-D symbol, and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.
- \*\* The term dbx is a registered trademark of dbx Inc.

# **Technics**

Central P.O. Box 288, Osaka 530-91, Japan

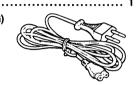
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# ACCESSORIES

AC power supply cord...
 SJA171 (E, EH, EG)
 SFDAC05G02 (EK)
 SJA173 (XL)
 SJA168-1 (XA)
 SJA183 (XB)
 SJA170 (MC)



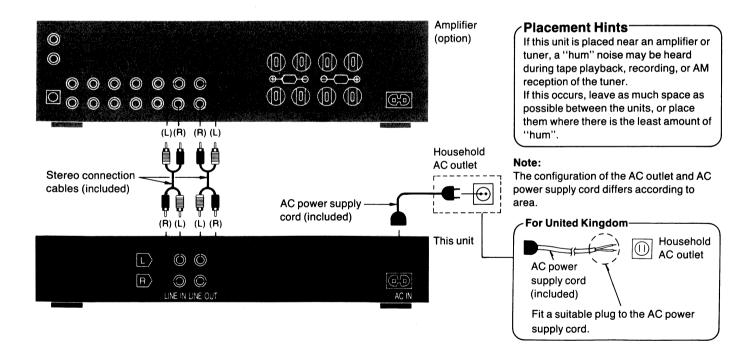
• Stereo connection cables...... 2 (SJP2264)



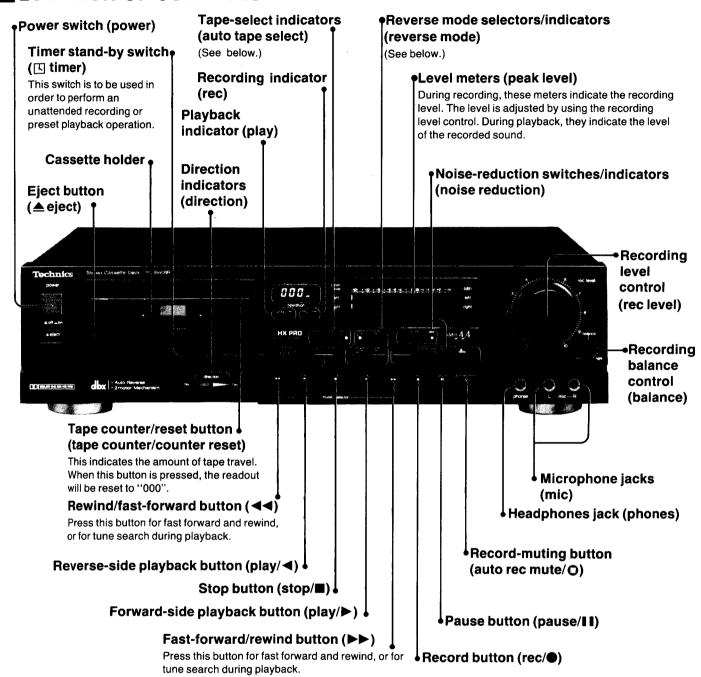


Note: Configuration of AC power supply cord differs according to area.

# HOW TO CONNECTION



# ■LOCATION OF CONTROLS



# Reverse mode selectors

# 

The playback (or recording) is of the forward side or reverse side only. (The tape automatically stops when it reaches either end.)

# • Continuous mode (⇔)...

When this mode is selected during playback, 8 complete plays (forward and reverse), or in other words 15 automatic-reverse operations, are possible.

If this continuous mode is used for recording, there will be one complete round-trip of the tape if the recording is started from the "forward" side; if the recording is started from the "reverse" side however, the recording will stop at the end of the "reverse" side; the tape will not automatically reverse to thereafter record on the "forward" side.

# Automatic tape selector system

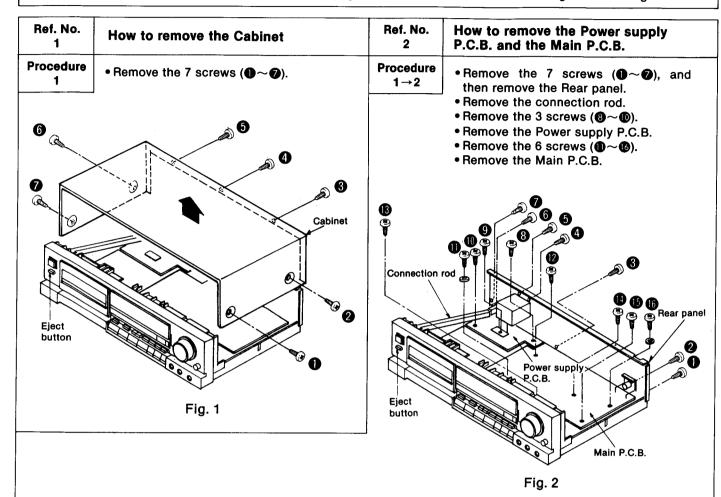
This cassette deck automatically detects the type of tape being used, and adjusts for the proper bias and equalization. The tape-select indicator indicates the type of tape being used. "Metal" lights when no tape has been loaded in the cassette holder.

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# ■ DISASSEMBLY INSTRUCTIONS

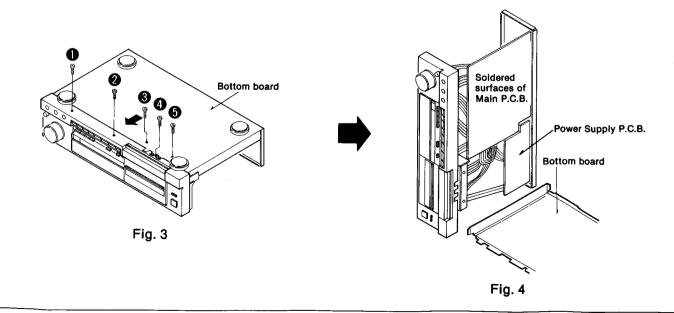
# "ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.



# How to check the Main P.C.B.

- When checking the soldered surfaces of Main P.C.B. and replacing the parts, do as shown.
  - 1. Remove the Main P.C.B. and Power supply P.C.B.
- 2. Remove the 5 screws (1 ~ 6), and then remove the Bottom board.



# How to remove the Volume/Meter Ref. No. Ref. No. How to remove the mechanism unit P.C.B. 5 **Procedure Procedure** • Pull out the rec. level control knob and Remove the 4 screws (●~④). $1\rightarrow2\rightarrow3$ $1\rightarrow2\rightarrow5$ the nut. • Remove the 4 screws (5~3). • Pull out the balance control knob. • Push the eject button and remove the • Remove the 3 screws (●~❸). mechanism unit. • Release the 2 tabs, and then remove the Volume/Meter P.C.B. Rec. level control knob **®** Balance control knob Volume/Meter P.C.B. Fig. 7 Fig. 5 Ref. No. How to remove the Operation P.C.B. and the Jack P.C.B. Mechanism unit ® **Procedure** Remove the 3 screws (●~⑤). $1\rightarrow2\rightarrow3\rightarrow4$ Fig. 8 • Release the 5 tabs, and then remove the Operation P.C.B. • Remove the 2 screws (4, 5), and then Ref. No. How to remove the Holder P.C.B. remove the Jack P.C.B. 6 **Procedure** • Remove the cassette lid. 6 • Release the 2 tabs, and then remove Tab the Holder P.C.B. Operation P.C.B. **O** Tabs Jack P.C.B. Holder P.C.B Fig. 6 Fig. 9

# ■ MEASUREMENT AND ADJUSTMENT METHODES

### Measurement Condition

- Rec. level control; Maximum
- Timer stand-by switch; Off
- Noise reduction select switch; Off

## Measuring instrument

- EVM(Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter
- AF oscillator

### Test tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
- Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Playback frequency response (315Hz, 12.5kHz, 10kHz, 8kHz, 4kHz, 1kHz, 250Hz, 125Hz, 63Hz, -20dB); QZZCFM

- Balance control; Center
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature 20±5°C(68±9°F)
- ATT(Attenuator)
- DC voltmeter
- Resistor (600Ω)
- Playback gain adjustment (315Hz, 0dB): QZZCFM
- Overall frequency response, Overall gain adjustment Normal reference blank tape; QZZCRA CrO2 reference blank tape; QZZCRX Metal reference blank tape; QZZCRZ

## **HEAD AZIMUTH ADJUSTMENT**

- 1.Playback the azimuth adjusment portion (8 kHz, -20 dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-CH and R-CH are maximized and the lissajous waveform, as illustrated, approaches 0 degrees.
- Note: If L-CH and R-CH are not maximized at the same point, adjust to the point where the levels of each channel are maximized and equal.
- 2.Perform the same adjustment in the play mode.
- After the adjustment, apply screwlock to the azimuth adjusting screw.

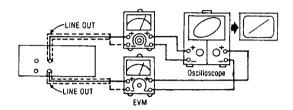


Fig. 1

E. Head R/P Head

Azimuth Screw (Forward) (Reverse)

Fig. 2

# TAPE SPEED ADJUSTMENT

- 1.Playback the middle portion of the test tape (QZZCWAT).
- 2. Adjust the VR in the motor so that the output is within the standard value.

Standard value: 3000 ± 15Hz

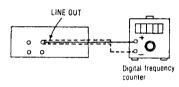


Fig. 3

# PLAYBACK GAIN ADJUSTMENT

- 1.Playback the gain adjusted portion (315 Hz, 0 dB) of the test tape (QZZCFM).
- Adjust VR5 (L-CH) and VR6 (R-CH) so that the output is within the standard value.

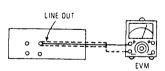
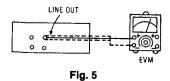


Fig. 4

Standard value: 0.4V±0.5dB

# **PLAYBACK FREQUENCY RESPONSE**

- Playback the frequency response portion (315 Hz, 12.5 kHz ~ 63 Hz, -20 dB) of the test tape (QZZCFM).
- 2. Assure that the frequency response is within the range shown in **Fig. 6** for both L-CH and R-CH.



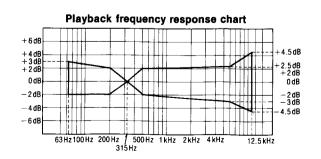


Fig. 6

# **OVERALL FREQUENCY RESPONSE**

- 1.Insert the a Normal blank test tape (QZZCRA) and set the unit to the Record Pause mode.
- 2. Apply a reference input signal (1 kHz, -24 dB) through an attenuator.
- 3. Attenuate the signal by 20 dB and adjust the frequency from 50 Hz ~ 12.5 kHz.
- 4. Record the frequency sweep.
- 5.Playback the recorded signal and assure that it is within the range shown in Fig.8 in comparison to the reference frequency (1 kHz).
- 6. If it is not within the standard range, adjust VR301 (L-CH) and VR302 (R-CH) so that the frequency level is within the standard range.
- 7.Repeat steps 2 ~ 6 above using the CrO<sub>2</sub> tape(QZZCRX) and the Metal tape(QZZCRZ) increasing the frequency range to 14 kHz (50 Hz ~ 14 kHz).
- 8. Assure that the level is within the range shown in Fig.9.

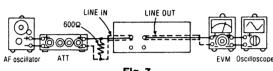


Fig. 7

# Normal Overall frequency response chart (NR OUT)

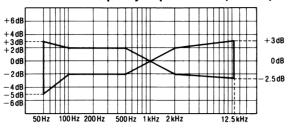


Fig. 8

# CrO<sub>2</sub> • Metal Overall frequency response chart (NR OUT)

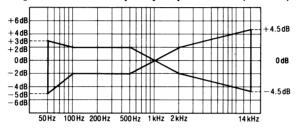
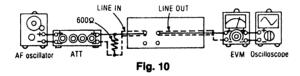


Fig. 9

# **OVERALL GAIN ADJUSTMENT**

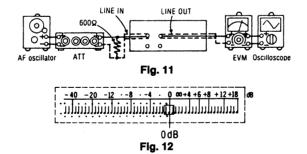
- 1.Insert the Normal blank test tape (QZZCRA) and set the unit to the Record pause mode.
- 2. Apply a reference input signal (1 kHz, -24 dB). Attenuate the output so that its level becomes 0.4V.
- 3.Record this input signal.
- 4.Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
- 5.If it is not within the standard value, adjust VR7 (L-CH) and VR8 (R-CH).
- 6. Repeat the step 2 ~ 5 above until the output is within the standard value.



Standard value: 0.4V ± 0.5dB

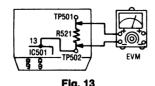
# FLUORESCENT METER ADJUSTMENT

- 1.Insert the Normal blank test tape(QZZCRA) and apply a reference input signal (1 kHz, -24 dB) in the Record Pause mode.
- 2. Using an attenuator, adjust until the voltage of the tape decks "LINE OUT" terminals is 0.4V.
- 3.Adjust VR701 so that the "0 dB" segment is slightly illuminated.



# dbx TIMING ADJUSTMENT

- 1.Shift the noise reduction switch to the dbx position.
- 2.Playback the gain adjustment portion (315 Hz, 0 dB) of the test tape (QZZCFM).
- 3. Connect a DC voltmeter across TP501 and TP502.
- 4. Adjust VR501 so that the output is within the standard value.



Standard value: DC18.4mV ± 0.5mV

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# **HX-PRO ADJUSTMENT**

- 1. Insert the Metal blank tape (QZZCRZ) and set the unit to the Record Pause mode.
- 2. Connect a DC voltmeter across TP7 (L-CH) and TP6, TP8 (R-CH) and TP6.
- 3. Adjust L303 (L-CH) and L304 (R-CH) so that the output is within the standard value.

Standard value: Less than DC 11mA

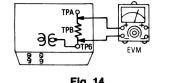
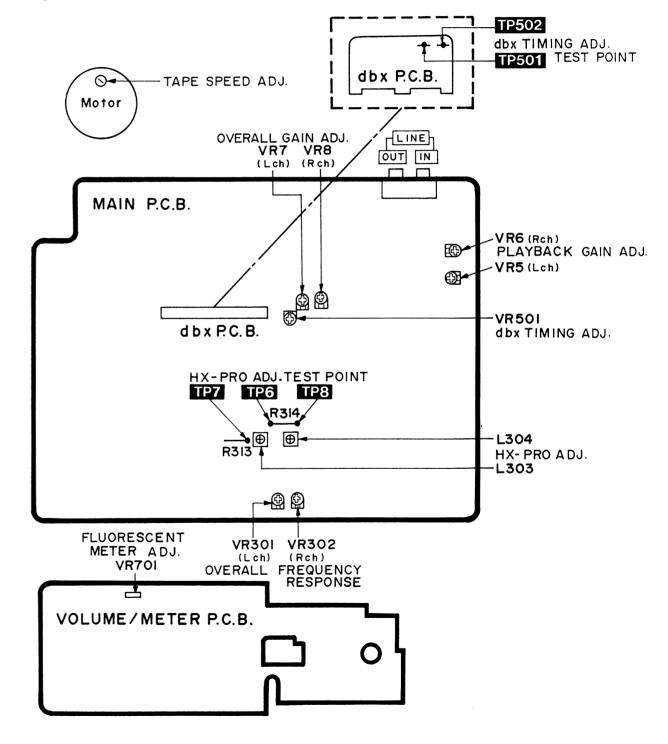


Fig. 14

TPA { TP7 (L-CH) TP8 (R-CH) TP8 { R313 (10 ohms) (L-CH) R314 (10 ohms) (R-CH)

# Adjustment Points



<del>--</del> 8 ---

# ■ MICROCOMPUTER TERMINAL FUNCTION

(IC801: LC6520C-3658) \*This microcomputer is used for mechanical operation.

Pin No.	Symbol	In/Out	Description of terminal				
1	PA2 (EST)		Not used in this unit.				
2	PA3 (POF)	Input	Power Supply Off detection.				
3	PB0	1	Reading of Key Scan input				
	(Scan in 0)		OUT 3 (PB0) 4 (PB1) 5 (PB2) 6 (PB3)				
4	PB1	4	7 (PC0) STOP PAUSE Reverse-side Forward-side PLAY				
	(Scan in 1)		8 AUTO REC REC. REW. F.F.				
5	PB2	Input	9 (PC2) dbx Dolby C Dolby B NR OFF				
	(Scan in 2)		10 (PC3) Timer REC. Timer PLAY Reverse mode (→) Reverse mode (→)				
6	PB3	-	11 Forward-side — PACK SW				
	(Scan in 3)		12 (PD1) — Quick in				
7	PC0 (Scan out 0)						
8	PC1 (Scan out 1)						
9	PC2 (Scan out 2)	Output					
10	PC3 (Scan out 3)	Output	Key Scan Output.				
11	PD0 (Scan out 4)						
12	PD1 (Scan out 5)						
13	PD2 (R. REC. INH.)	Input	Reverse-side REC. Inhibit switch.  • "L" in REC. Inhibit switch on mode.  • "H" in REC. Inhibit switch off mode.				
14	PD3 (MSP)	Input	Music selector pulse.  • Non Recorded space detection.				
15	PE0 (CD Edit Ind)		Not used in this unit.				

Pin No.	Symbol	In/Out	Description of terminal	
16	PE1 (RMT)	Output	REC. mute control.	
17	PE2 (MMT)	Output	Meter mute control.	
18	PE3 (DMT)	Output	LINE OUT Direct mute control.  • "L" in PLAY, REC-PLAY, REC-PAUSE mode.  • "H" in other mode.	
19	TEST		Test terminal.  • Connected to GND.	
20	V <sub>ss</sub> (GND)		GND terminal.	
21 22	OSC1 OSC2	Output Input	Clock OSC terminal	
23	RES	Input	Reset terminal.  • Reset at "L" level.	
24	PF0 (RM-SP)	Output	Reel motor speed control.  • "L" in PLAY, REC-PLAY and STOP mode.  • "H" in other mode.	
25	PF1 (RM-F)	Output	Reel motor control.  • "H" in Foward PLAY and F.F. mode.	
26	PF2 (RM-R)	Output	Reel motor control.  • "H" in Reverse PLAY and REW mode.	
27	PF3 (CPM)	Output	Capstan motor control.  • "L" in PLAY and REC-PLAY mode.  • "H" in other mode.	
28	PG0 (C/R PL)	Output	Plunger control.  • "L" in plunger ON mode (REC-PLAY, CUE, REV etc).	
29	PG1 (Trig PL)	Output	Plunger control.  • "L" in plunger ON mode.	
30	PG2 (RPS)	Input	Reel table pulse.  • Reel table rotation is detected by photo sensor.	
31	PG3 (C. Up/Down)	Output	Counter UP/Down command.  • "H" in counter is UP mode (Forward-PLAY, F.F. etc).  • "L" in counter is down mode (Reverse-PLAY, REW etc).	

Pin No.	Symbol	In/Out	Description of terminal	
32	PIO (BIAS)	Output	Bias OSC control.  • "L" in REC-PLAY mode.	
33	PI1 (REC. LED)	Output	REC. LED display.  • "L" in REC-PAUSE and REC-PLAY mode.  • "H" in other mode.	
34	PI2 (PLAY LED)	Output	PLAY LED display.  • "L" in PLAY and REC-PLAY mode.  • "H" in STOP, FF and REW mode.	
35	PI3 (DIR LED)	Output	DIRECTION LED display.  • "H" in Foward mode.  • "L" in Reverse mode.	
36	PJ0 (Remote)		Not used in this unit.	
37	PJ1 (Dolby B)	Output	Noise reduction selector.  • "L" in Dolby B mode.  • "H" in other mode.	
38	PJ2 (Dolby C)	Output	Noise reduction selector.  • "L" in Dolby C mode.  • "H" in other mode.	
39	PJ3 (dbx)	Output	Noise reduction selector.  • "L" in dbx mode.  • "H" in other mode.	
40	V <sub>DD</sub>		Power supply terminal.	
41	PA0	Output	Reverse mode LED display.  • "L" in (continuous) mode.	
42	PA1	Output	Reverse mode LED display.  • "L" in    (one-way) mode.	

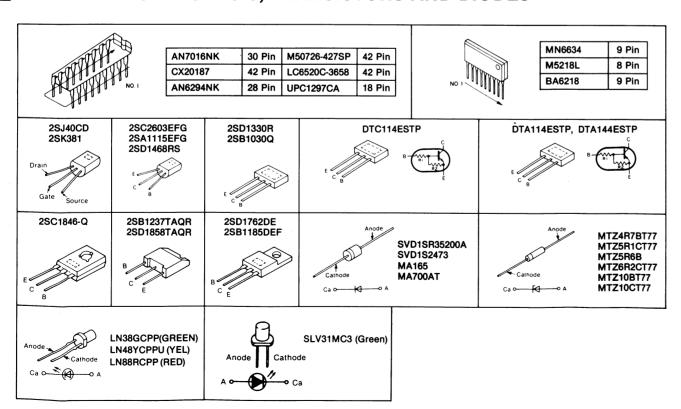
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(IC701: M50726-427SP) \*This microcomputer is used for tape counter operation and FL meter.

	1				
Pin No.	Symbol	In/Out	Function/operation		
1	RESET	Input	Reset terminal.		
2	INT	Input	Reel table Pulse.  • The rotation of reel table is detected by photo sensor, and the pulses are used to carry up or down for the counter.		
3	AV <sub>SS</sub>		Power supply for A-D converter, AV <sub>SS</sub> =3.5V.		
4	V <sub>REF</sub>	Input	Reference Power supply.		
5	K <sub>0</sub>	Input	Lch A-D Converter (Analogue input).		
6	K <sub>1</sub>	Input	Rch A-D Converter (Analogue input).		
7	K <sub>2</sub>	Input	Reset input.  • Activate "Low" (counter display is reset to \( \bigcap \) \( \bigcap \		
8	K <sub>3</sub>	Input	Meter mute control (activate "Low").  Meter renge (wide/normal) mode selector.		
9	AV <sub>DD</sub>	Input	Power supply for A-D converter.  • Connected to V <sub>DD</sub> .		
10	S <sub>0</sub>	1	Counter segment (active "LOW").		
11	S <sub>1</sub>				
12	S <sub>2</sub>		Segment g (S <sub>0</sub> ) Segment a (S <sub>2</sub> )		
13	S <sub>3</sub>	In/Out	Segment f (S <sub>4</sub> ) Segment b (S <sub>3</sub> )		
14	S <sub>4</sub>		Segment e (S <sub>3</sub> )——Segment c (S <sub>0</sub> )		
15	S <sub>5</sub>		Segment d (S <sub>1</sub> )		
16	S <sub>6</sub>				
.18	D <sub>0</sub>	Output	Scan signal for counter drive (SC1).		
19	D <sub>1</sub>	Output	Scan signal for level meter drive (SC2).		
20	CNV <sub>SS</sub>		Connected to V <sub>ss</sub> .		
21	V <sub>SS</sub>		Connected to GND.		
			<u></u>		

Pin No.	Symbol	In/Out	Function/operation
17 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	S <sub>7</sub> D <sub>2</sub> D <sub>3</sub> D <sub>4</sub> D <sub>5</sub> D <sub>6</sub> D <sub>7</sub> D <sub>8</sub> D <sub>9</sub> D <sub>10</sub> F <sub>0</sub> F <sub>1</sub> F <sub>2</sub> F <sub>3</sub> G <sub>0</sub> G <sub>1</sub> G <sub>2</sub> G <sub>3</sub>	}In/Out	B18
39	X <sub>OUT</sub>	Output	Clock OSC terminal
40	X <sub>IN</sub>	Input	
41	CNTR		Not used in this unit.
42	V <sub>DD</sub>	Input	Power supply terminal

# ■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



# **■ RESISTORS & CAPACITORS**

Notes: \* Important safety notice:

Components identified by  $\triangle$  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

\* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

### **Numbering System of Resistor**

### Example:

ERD	25	F	J	102
Туре	Wattage (1/4W)	Shape	Tolerance	Value (1KΩ)
ERX	2	AN	J	471
Туре	Wattage (2W)	Shape	Tolerance	Value (470Ω)

# Numbering System of Capacitor

### Example:

ECKD	1H	102	Z	F
Туре	Voltage (50V)	Value (0.001µF)	Tolerance	Peculiarity
ECEA	50	M	330	
Туре	Voltage (50V)	Pecliarity	Value (33µF)	

- Capacity are in microfarads (µF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F).
- Resistance are in ohms ( $\Omega$ ), unless specified otherwise, 1K = 1,000 $\Omega$ , 1M = 1,000k $\Omega$

Resistor Type	Wa	Wattage	
ERD : Carbon  ERG : Metal Oxide  ERQ : Fuse Type Metal  ERX : Metal Film  ERD L : Carbon (chip)  ERO K : Metal Film (chip)  ERC : Solid  ERF : Incombustible  Box-Shaped  ERM : Wire-Wound	10: 1/8W 14: 1/4W 1A: 1W S2: 1/4W 2F: 1/4W 2A: 2W 6G: 1/10W	12 : 1/2W 25 : 1/4W 18 : 1/8W S1 : 1/2W 50 : 1/2W 3A : 3W 8G : 1/8W	J: ±5% F: ±1% G: ±2% J: ±5% K: ±10% M: ±20%
RRJ : Cip Resistor ERJ : Cip Resistor			

Vo	Tolerance	
OJ: 6.3V 1C: 16V 1H: 50V 50: 50V 2H: 500V 1: 100V KC: 400V AC KC: 125V AC (UL)	1A: 10V 1E: 25V 1V: 35V 05: 50V 2A: 100V 1J: 63V	K: ±10% M: ±20% Z: +80 % -20 J: ±5% G: ±2% F: ±1% C: ±0.25pF D: ±0.5pF
	0J: 6.3V 1C: 16V 1H: 50V 50: 50V 2H: 500V 1: 100V KC: 400V AC KC: 125V AC	1C:16V 1E:25V 1H:50V 1V:35V 50:50V 05:50V 2H:500V 2A:100V 1:100V 1J:63V KC:400V AC KC:125V AC

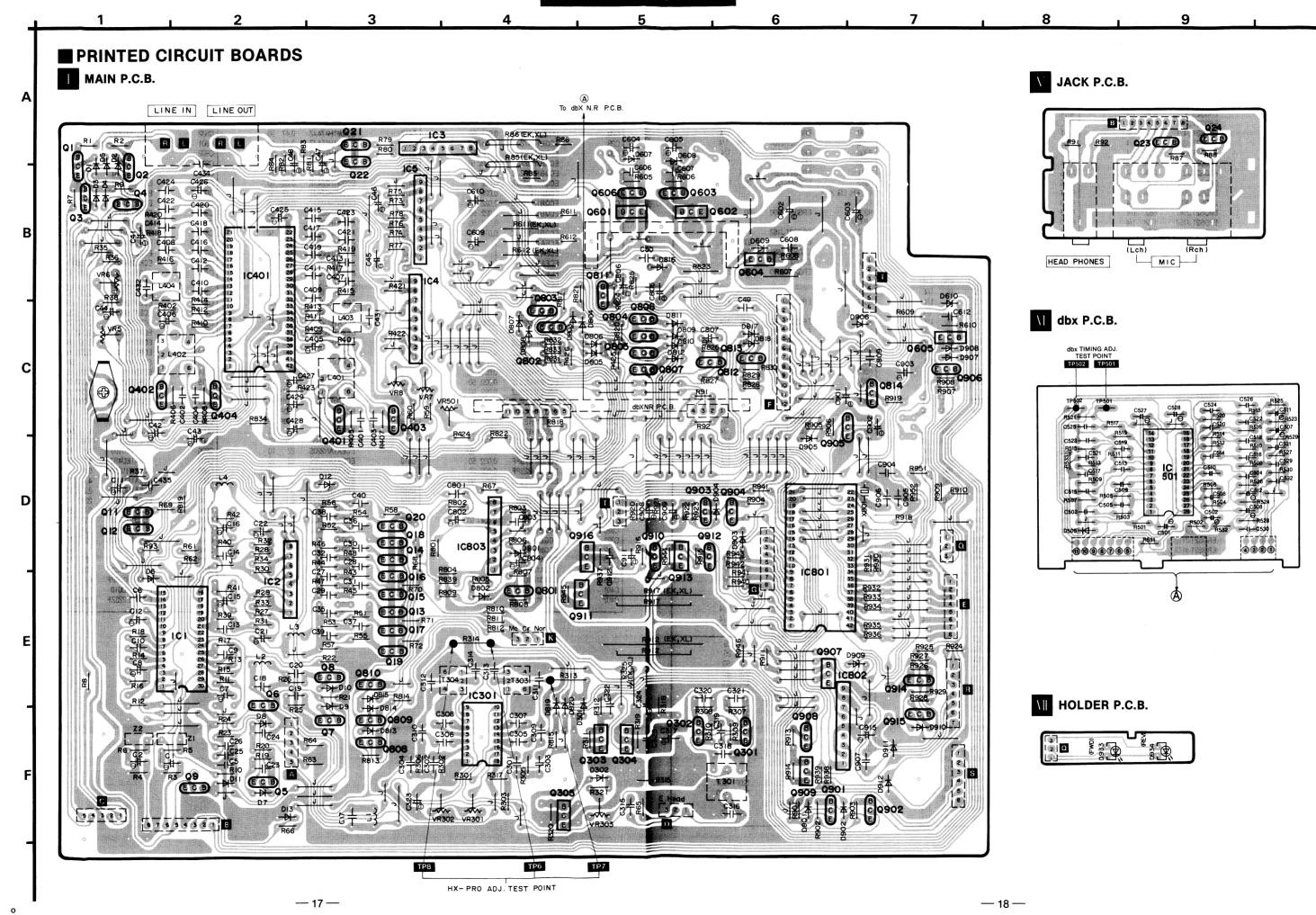
R2 ERDSZTJJ333 33K 1/4 R43 ERDSZTJ350 39 1/4 (NB) R5 ERXIANJIDI 100 1 R4 ERDSZTJ473 47K 1/4 R45 ERDSZTJ350 39 1/4 R65 ERXIANJIDI 100 1 R4 R65 ERXIANJIDI 100 1 R65 ERXIANJIDI 100		Ţ-		·					
R1	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
R1	RESISTORS(VAI	LUE,WATTAGE)		R41	FRDS2T-1222	2 2K 1/4	R85	FRDS2T, 1101	100 1/4
R2 ERDSZTJJ333 33K 1/4 R43 ERDSZTJ350 39 1/4 (NB) R5 ERXIANJIDI 100 1 R4 ERDSZTJ473 47K 1/4 R45 ERDSZTJ350 39 1/4 R65 ERXIANJIDI 100 1 R4 R65 ERXIANJIDI 100 1 R65 ERXIANJIDI 100	R1	FRDS2T.J333	33K 1/4	4				LINDOLIGIO	100 1/4
REDISCITION   ATK   1/4	R2								
RE	R3							FRX1AN.J101	100 1
RE	R4			R45				2.50210.101	100 1
RE	R5			R46				FRDS2TJ101	100 1/4
R7	R6			R47				2	100 1/1
R8	R7			R48					
REDICT_100	R8			R51				FRY1AN.I101	100 1
RIO EROSZTJAT3 47K 1/4 RS3 EROSZTJSS2 5.6K 1/4 R88 EROSZTJAT2 4.7K 1/4 R811 EROSZTJAT3 47K 1/4 R84 EROSZTJSS2 5.6K 1/4 R88 EROSZTJAT2 4.7K 1/4 R812 EROSZTJAT3 120 1/4 R85 EROSZTJAT2 1.2K 1/4 R85 EROSZTJAT2 4.7K 1/4 R813 EROSZTJAT3 13K 1/4 R85 EROSZTJAT2 1.2K 1/4 R89 EROSZTJAT2 4.7K 1/4 R813 EROSZTJAT3 13K 1/4 R85 EROSZTJAT2 1.2K 1/4 R89 EROSZTJAS2 5.6K 1/4 R814 EROSZTJAT3 13K 1/4 R85 EROSZTJAT2 1.2K 1/4 R82 EROSZTJAS2 5.6K 1/4 R816 EROSZTJAT3 13K 1/4 R87 EROSZTJAT2 1.2K 1/4 R82 EROSZTJAS2 3.3K 1/4 R816 EROSZTJAS2 3.3K 1/4 R89 EROSZTJAT2 1.2K 1/4 R801 EROSZTJAT3 3.3K 1/4 R816 EROSZTJAT2 9.1K 1/4 R89 EROSZTJAT2 1.2K 1/4 R301 EROSZTJAT3 15K 1/4 R816 EROSZTJAT2 9.1K 1/4 R80 EROSZTJAT2 3.3K 1/4 R302 EROSZTJAT3 15K 1/4 R816 EROSZTJAT2 9.1K 1/4 R80 EROSZTJAT2 3.3K 1/4 R303 EROSZTJAT3 15K 1/4 R818 EROSZTJAT3 1.2K 1/4 R80 EROSZTJAT3 1.2K 1/4 R806 EROSZTJAT3 1.2K 1/4 R806 EROSZTJAT3 1.2K 1/4 R819 EROSZTJAT3 1.2K 1/4 R80 EROSZTJAT3 1.2K 1/4 R806 EROSZTJAT3 1.2K 1/4 R807 EROSZTJAT3 1.2K 1/4 R807 EROSZTJAT3 1.2K 1/4 R807 EROSZTJAT3 1.2K 1/4 R808 EROSZTJAT3 1.2K 1/4 R8	R9							2.00.7440101	100 1
RET   REDSZTJ121   120   1/4   RS5   ERDSZTJSE2   5.6K   1/4   R81   ERDSZTJ472   4.7K   1/4   R812   ERDSZTJ182   120   1/4   RS5   ERDSZTJ182   1.2K   1/4   RS1   ERDSZTJSE2   5.6K   1/4   RS1   ERDSZTJSE3   5.6K   1/4   RS2   ERDSZTJSE3   5.6K   1/4   RS2   ERDSZTJSE3   5.6K   1/4   RS2   ERDSZTJSE3   5.6K   1/4	R10							FRDS2T.1472	4.7K 1/4
RI12 ERDSZTJ121 120 1/4 R55 ERDSZTJ122 1.2K 1/4 R91 ERDSZTJ592 5.6K 1/4 R131 ERDSZTJ133 13K 1/4 R56 ERDSZTJ122 1.2K 1/4 R92 ERDSZTJ592 5.6K 1/4 R14 ERDSZTJ133 13K 1/4 R56 ERDSZTJ122 1.2K 1/4 R92 ERDSZTJ592 5.6K 1/4 R14 ERDSZTJ133 13K 1/4 R57 ERDSZTJ122 1.2K 1/4 R93 ERDSZTJ392 3.9K 1/4 R15 ERDSZTJ596 560K 1/4 R59 ERDSZTJ102 1K 1/4 R301 ERDSZTJ533 15K 1/4 R16 ERDSZTJ596 560K 1/4 R59 ERDSZTJ332 3.3K 1/4 R302 ERDSZTJ133 15K 1/4 R16 ERDSZTJ912 9.1K 1/4 R60 ERDSZTJ332 3.3K 1/4 R303 ERDSZTJ132 12K 1/4 R18 ERDSZTJ912 9.1K 1/4 R61 ERDSZTJ323 2.3K 1/4 R303 ERDSZTJ132 12K 1/4 R19 ERDSZTJ912 9.1K 1/4 R61 ERDSZTJ232 22K 1/4 R306 ERDSZTJ134 150K 1/4 R19 ERDSZTJ155 1.5M 1/4 R62 ERDSZTJ223 22K 1/4 R306 ERDSZTJ154 150K 1/4 R20 ERDSZTJ155 1.5M 1/4 R63 ERDSZTJ223 22K 1/4 R306 ERDSZTJ322 22K 1/4 R20 ERDSZTJ323 22K 1/4 R63 ERDSZTJ323 22K 1/4 R306 ERDSZTJ322 22K 1/4 R22 ERDSZTJ223 22K 1/4 R64 ERDSZTJ323 22K 1/4 R308 ERDSZTJ323 22K 1/4 R22 ERDSZTJ223 22K 1/4 R65 ERDSZTJ322 22K 1/4 R309 ERDSZTJ330 18 1/4 R22 ERDSZTJ301 100 1/4 R66 ERDSZTJ301 10 1/4 R308 ERDSZTJ301 18 1/4 R24 ERDSZTJ101 100 1/4 R66 ERDSZTJ372 4.7K 1/4 R310 ERDSZTJ301 18 1/4 R25 ERDSZTJ103 10K 1/4 R69 ERDSZTJ372 4.7K 1/4 R311 ERDSZTJ373 47K 1/4 R25 ERDSZTJ103 10K 1/4 R69 ERDSZTJ372 4.7K 1/4 R313 ERDSZTJ100 10 1/4 R26 ERDSZTJ103 10K 1/4 R69 ERDSZTJ372 4.7K 1/4 R313 ERDSZTJ100 10 1/4 R30 ERDSZTJ30 10K 1/4 R314 ERDSZTJ30 10K 1/4 R314 ERDSZTJ30 10K 1/4 R314 ERDSZTJ30 10K 1/4 R315 ERDSZTJ30 10K 1/4 R316 ERDSZTJ30 10K 1/4 R316 ERDSZTJ30 10K 1/4 R318 ERDSZTJ30 10K 1/4 R318 ERDSZTJ30 10K 1/4 R318 ERDSZTJ30 10K 1/4 R319 ERDSZTJ	R11			R54					
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R33	R32								
R34 ERDSZTJ332 3,3K 1/4 R77 ERDSZTJ822 8,2K 1/4 R320 ERDSZTJ331 330 1/4 R35 ERDSZTJ473 47K 1/4 R78 ERDSZTJ822 8,2K 1/4 R321 ERDSZTJ221 220 1/4 R36 ERDSZTJ473 47K 1/4 R79 ERDSZTJ152 1,5K 1/4 R325 ERD2FCJ4R7 4,7 1/4 R37 ERDSZTJ472 4,7K 1/4 R80 ERDSZTJ152 1,5K 1/4 (EK, XL) R38 ERDSZTJ472 4,7K 1/4 R81 ERDSZTJ152 1,5K 1/4 R327 ERDSZTJ473 47K 1/4 R39 ERDSZTJ473 47K 1/4 R82 ERDSZTJ182 1,8K 1/4 R327 ERDSZTJ473 47K 1/4 R40 ERDSZTJ473 47K 1/4 R82 ERDSZTJ182 1,8K 1/4 R328 ERDSZTJ103 10K 1/4 R40 ERDSZTJ473 47K 1/4 R83 ERDSZTJ224 220K 1/4 R401 ERDSZTJ242 2,4K 1/4	R33								
R35 ERDS2TJ473 47K 1/4 R78 ERDS2TJ822 8.2K 1/4 R321 ERDS2TJ221 220 1/4 R36 ERDS2TJ473 47K 1/4 R79 ERDS2TJ152 1.5K 1/4 R325 ERD2FCJ4R7 4.7 1/4 R37 ERDS2TJ472 4.7K 1/4 R80 ERDS2TJ152 1.5K 1/4 (EK, XL) R38 ERDS2TJ472 4.7K 1/4 R81 ERDS2TJ152 1.5K 1/4 R327 ERDS2TJ473 47K 1/4 R39 ERDS2TJ473 47K 1/4 R82 ERDS2TJ182 1.8K 1/4 R328 ERDS2TJ103 10K 1/4 R40 ERDS2TJ473 47K 1/4 R83 ERDS2TJ224 220K 1/4 R401 ERDS2TJ242 2.4K 1/4	R34								
R36 ERDSZTJ473 47K 1/4 R79 ERDSZTJ152 1.5K 1/4 R325 ERD2FCJ4R7 4.7 1/4 R37 ERDSZTJ472 4.7K 1/4 R80 ERDSZTJ152 1.5K 1/4 (EK, XL) R38 ERDSZTJ472 4.7K 1/4 R81 ERDSZTJ182 1.8K 1/4 R327 ERDSZTJ473 47K 1/4 R39 ERDSZTJ473 47K 1/4 R82 ERDSZTJ182 1.8K 1/4 R328 ERDSZTJ103 10K 1/4 R40 ERDSZTJ473 47K 1/4 R83 ERDSZTJ224 220K 1/4 R401 ERDSZTJ242 2.4K 1/4	R35								
R37	R36								
R38	R37			1				CIADEI COTIII	T.1 1/T
R39 ERDS2TJ473 47K 1/4 R82 ERDS2TJ182 1.8K 1/4 R328 ERDS2TJ103 10K 1/4 R40 ERDS2TJ473 47K 1/4 R83 ERDS2TJ224 220K 1/4 R401 ERDS2TJ242 2.4K 1/4	R38							FRDS2T.1473	A7K 1/A
R40 ERDS2TJ473 47K 1/4 R83 ERDS2TJ224 220K 1/4 R401 ERDS2TJ242 2,4K 1/4	R39								
2.002.02.2	R40								
I 1884   ENUSZI 1774   271K 1/4   I HAUD   FRICOT 1949   9 AV 1/4		2002.0410	7111 I/T	R84	ERDS2TJ224	220K 1/4	R402	ERDS2TJ242	2.4K 1/4

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
R405	ERDS2TJ274	270K 1/4	(XB)			R841	ERDS2TJ103	10K 1/4
R406	ERDS2TJ274	270K 1/4	R612	ERG1ANJ560	56 1	R901	ERDS2TJ103	10K 1/4
R407	ERDS2TJ274	270K 1/4 270K 1/4	(EK, XL)	EDO16NIVD1E	0.15 1/6	R902 R903	ERDS2TJ103 ERDS2TJ103	10K 1/4 10K 1/4
R408 R409	ERDS2TJ274 ERDS2TJ472	4,7K 1/4	R613 (EK, XL)	ERQ16NKR15	0.15 1/6	R904	ERDS2TJ103	10K 1/4
R410	ERDS2TJ472	4.7K 1/4	R614	ERQ.16NKR15	0.15 1/6	R905	ERDS2TJ332	3.3K 1/4
R411	ERDS2TJ471	470 1/4	(EK, XL)			R906	ERDS2TJ103	10K 1/4
R412	ERDS2TJ471	470 1/4	R701	ERDS2TJ105	1M 1/4	R907	ERDS2TJ103	10K 1/4
R413	ERDS2TJ392	3.9K 1/4	R702	ERDS2TJ104	100K 1/4	R908	ERDS2TJ104	100K 1/4
R414	ERDS2TJ392	3.9K 1/4	R703	ERDS2TJ104	100K 1/4	R909	ERDS2TJ681	680 1/4
R415	ERDS2TJ272	2.7K 1/4 2.7K 1/4	R704	ERDS2TJ104	100K 1/4 100 1/4	R910	ERDS2TJ471 ERDS2TJ391	470 1/4 390 1/4
R416 R417	ERDS2TJ272 ERDS2TJ682	6.8K 1/4	R705 R706	ERDS2TJ101 ERDS2TJ101	100 1/4	R911 R912	ERG1ANJ390	39 1
R418	ERDS2TJ682	6.8K 1/4	R707	ERDS2TJ103	10K 1/4	(E, EH, EG, XA)	211017410000	ω .
R419	ERDS2TJ681	680 1/4	R708	ERDS2TJ103	10K 1/4	(XB)		
R420	ERDS2TJ681	680 1/4	R709	ERDS2TJ103	10K 1/4	R912	ERG3ANJ390	39 3
R421	ERDS2TJ152	1.5K 1/4	R710	ERDS2TJ103	10K 1/4	(EK, XL)		457 4/4
R422	ERDS2TJ152	1.5K 1/4	R711	ERDS2TJ473	47K 1/4	R913	ERDS2TJ152	1.5K 1/4
R423	ERDS2TJ104	100K 1/4	R712	ERDS2TJ223 ERDS2TJ473	22K 1/4 47K 1/4	R914 R915	ERDS2TJ273 ERDS2TJ681	27K 1/4 680 1/4
R424 R425	ERDS2TJ472 ERDS2TJ472	4.7K 1/4 4.7K 1/4	R713 R714	ERDS2TJ473	1K 1/4	R916	ERDS2TJ102	1K 1/4
R426	ERDS2TJ472	4.7K 1/4 4.7K 1/4	R715	ERDS2TJ102	1K 1/4	R917	ERG2ANJ390	39 2
R501	ERDS2TJ432	4.3K 1/4	R716	ERDS2TJ473	47K 1/4	(E, EH, EG, XA)		
R502	ERDS2TJ432	4.3K 1/4	R717	ERDS2TJ102	1K 1/4	(XB)		
R503	ERDS2TJ622	6.2K 1/4	R718	ERDS2TJ102	1K 1/4	R917	ERG3ANJ390	39 3
R504	ERDS2TJ622	6.2K 1/4	R719	ERDS2TJ473	47K 1/4	(EK, XL)		<b>201</b> 111
R505	ERDS2TJ243	24K 1/4	R720	ERDS2TJ102	1K 1/4	R918	ERDS2TJ683	68K 1/4
R506	ERDS2TJ243	24K 1/4 91K 1/4	R721	ERDS2TJ102 ERDS2TJ473	1K 1/4 47K 1/4	R919 R920	ERDS2TJ683 ERDS2TJ561	68K 1/4 560 1/4
R507 R508	ERDS2TJ913 ERDS2TJ913	91K 1/4 91K 1/4	R722 R723	ERDS2TJ102	1K 1/4	R921	ERDS2TJ103	10K 1/4
R509	ERDS2TJ472	4.7K 1/4	R724	ERDS2TJ102	1K 1/4	R922	ERDS2TJ104	100K 1/4
R510	ERDS2TJ472	4.7K 1/4	R725	ERDS2TJ473	47K 1/4	R923	ERDS2TJ102	1K 1/4
R511	ERDS2TJ333	33K 1/4	R726	ERDS2TJ103	10K 1/4	R924	ERDS2TJ471	470 1/4
R512	ERDS2TJ333	33K 1/4	R727	ERDS2TJ103	10K 1/4	R925	ERDS2TJ222	2.2K 1/4
R513	ERDS2TJ333	33K 1/4	R728	ERDS2TJ103	10K 1/4	R926	ERDS2TJ473	47K 1/4
R514	ERDS2TJ333	33K 1/4	R729	ERDS2TJ124	120K 1/4	R927	ERDS2TJ472	4.7K 1/4
R515	ERDS2TJ682	6.8K 1/4	R730	ERDS2TJ124	120K 1/4 100K 1/4	R928 R929	ERDS2TJ103 ERDS2TJ103	10K 1/4 10K 1/4
R516 R517	ERDS2TJ682 ERDS2TJ182	6.8K 1/4 1.8K 1/4	R731 R732	ERDS2TJ104 ERDS2TJ104	100K 1/4 100K 1/4	R930	ERDS2TJ102	1K 1/4
R518	ERDS2TJ182	1.8K 1/4	R733	ERDS2TJ221	220 1/4	R931	ERDS2TJ561	560 1/4
R519	ERDS2TJ183	18K 1/4	R734	ERDS2TJ471	470 1/4	R932	ERDS2TJ561	560 1/4
R520	ERDS2TJ183	18K 1/4	R735	ERD2FCG181	180 1/4	R933	ERDS2TJ561	560 1/4
R521	ERDS2TJ102	1K 1/4	R736	ERD2FCG181	180 1/4	R934	ERDS2TJ102	1K 1/4
R523	ERDS2TJ123	12K 1/4	R801	ERDS2TJ472	4.7K 1/4	R935	ERDS2TJ561	560 1/4
R524	ERDS2TJ123	12K 1/4	R802	ERDS2TJ101	100 1/4	R936	ERDS2TJ561	560 1/4 470 1/4
R525	ERDS2TJ123	12K 1/4 12K 1/4	R803 R804	ERDS2TJ563 ERDS2TJ393	56K 1/4 39K 1/4	R937 R938	ERDS2TJ471 ERDS2TJ103	10K 1/4
R526 R527	ERDS2TJ123 ERDS2TJ112	1.1K 1/4	R805	ERDS2TJ103	10K 1/4	R939	ERDS2TJ103	10K 1/4
R528	ERDS2TJ112	1.1K 1/4	R806	ERDS2TJ392	3,9K 1/4	R940	ERDS2TJ562	5.6K 1/4
R529	ERDS2TJ112	1.1K 1/4	R807	ERDS2TJ332	3.3K 1/4	R941	ERD25FJ562	5.6K 1/4
R530	ERDS2TJ112	1.1K 1/4	R808	ERDS2TJ273	27K 1/4	R942	ERDS2TJ562	5.6K 1/4
R531	ERDS2TJ223	22K 1/4	R809	ERDS2TJ273	27K 1/4	R943	ERDS2TJ562	5.6K 1/4
R532	ERDS2TJ223	22K 1/4	R810	ERDS2TJ102	1K 1/4	R944 R945	ERDS2TJ273 ERDS2TJ273	27K 1/4 27K 1/4
R533	ERDS2TJ103 ERDS2TJ683	10K 1/4 68K 1/4	R811 R812	ERDS2TJ561 ERDS2TJ471	560 1/4 470 1/4	R946	ERDS213273 ERD25FJ103	10K 1/4
R601 R602	ERDS2TJ683	68K 1/4	R813	ERDS2TJ223	22K 1/4	R951	ERDS2TJ472	4.7K 1/4
R605	ERDS2TJ152	1.5K 1/4	R814	ERDS2TJ103	10K 1/4	R952	ERDS2TJ472	4.7K 1/4
(E, EH, EG, XA)			R815	ERDS2TJ271	270 1/4		ALUE, VOLTAGE)	
(XB)			R817	ERDS2TJ103	10K 1/4	C1	ECEA1EU4R7	4.7 25
R606	ERDS2TJ152	1.5K 1/4	R818	ERDS2TJ103	10K 1/4	C2	ECEA1EU4R7	4.7 25
(E, EH, EG, XA)			R819	ERDS2TJ103	10K 1/4	C5	ECKD1H103PF	0.01 50
(XB)	EDD0E0 1407	A 7 1/A	R820 R821	ERDS2TJ103 ERDS2TJ103	10K 1/4 10K 1/4	C6	ECKD1H103PF	0.01 50
R607 R608	ERD2FCJ4R7 ERDS2TJ102	4.7 1/4 1K 1/4	R822	ERDS2TJ472	4.7K 1/4	C7	ECEA0JU470	47 6.3
R609	ERDSETSTOZ ERD2FCJ4R7	4.7 1/4	R823	ERD2FCG470	47 1/4	C8	ECEA0JU470	47 6.3
R610	ERDS1FJ391	390 1/2	R824	ERDS2TJ103	10K 1/4	C9	ECQB1H562JZ	0,0056 50 0,0056 50
(E, EH, EG, XA)			R825	ERDS2TJ103	10K 1/4	C10 C11	ECQB1H562JZ ECEA1CU100	10 16
(XB)			R826	ERDS2TJ223	22K 1/4	C12	ECEATCU100	10 16
R610	ERDS2TJ391	390 1/4	R827	ERDS2TJ473	47K 1/4	C13	ECKD1H102KB	0.001 50
(EK, XL)	CDDOOT :	FC 4/4	R828	ERDS2TJ103	10K 1/4	C14	ECKD1H102KB	0.001 50
R611	ERDS2TJ560	56 1/4	R829	ERDS2TJ333	33K 1/4 10K 1/4	C15	ECEA1HU010	1 50
(E, EH, EG, XA) (XB)			R830 R831	ERDS2TJ103 ERDS2TJ682	6,8K 1/4	C16	ECEA1HU010	1 50
R611	ERG1ANJ560	56 1	R832	ERDS2TJ103	10K 1/4	C17	ECKD2H121KB	120P 500
(EK, XL)	ENGINITION.	<b>∞</b> 1	R833	ERDS2TJ103	10K 1/4	C18	ECKD2H121KB	120P 500
R612	ERDS2TJ560	56 1/4	R834	ERDS2TJ473	47K 1/4	C19 C20	ECKD1H821KB ECKD1H821KB	820P 50 820P 50
(E, EH, EG, XA)			R839	ERDS2TJ393	39K 1/4	\c20	EUNDINGLIND	02UF 3U

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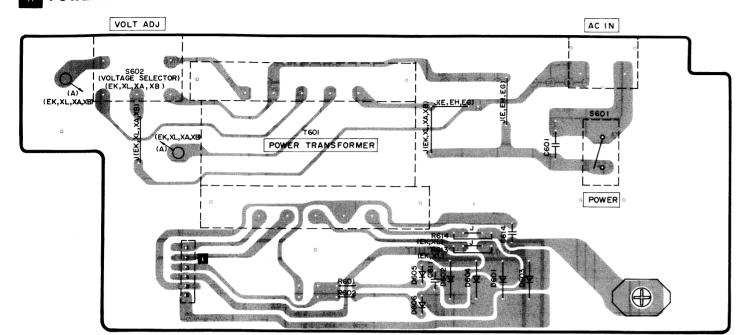
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22	ECEA1EU4R7	4,7 25	C404	ECKD1H152KB	0,0015 50	C526	ECQB1H183JZ	0.018 50
23	ECKD1H122KB	0,0012 50	C405	ECEA1EU4R7	4.7 25	C527	ECEA1AK220	22 10
24	ECKD1H122KB	0.0012 50	C406	ECEA1EU4R7	4.7 25	C528	ECEA1AK220	22 10
25	ECKD1H561KB	560P 50	C407	ECQB1H472JZ	0.0047 50	C529	ECKD1H182KB	0.0018 50
		560P 50	C407	ECQB1H472JZ	0.0047 50	C530	ECKD1H182KB	0.0018 50
26	ECKD1H561KB		1					0.0018 50
27	ECQM1H273JZ	0.027 50	C409	ECQM1H474JZ	0.47 50	C531	ECKD1H182KB	
28	ECQM1H273JZ	0.027 50	C410	ECQM1H474JZ	0.47 50	C532	ECKD1H182KB	0.0018 50
C29	ECQB1H472JZ	0.0047 50	C411	ECQM1H154JZ	0.15 50	C601 ∆∆	ECKDKC103PF2	0.01 125
230	ECQB1H472JZ	0.0047 50	C412	ECQM1H154JZ	0.15 50	C602	ECEA1CU472	4700 16
231	ECQB1H822JZ	0,0082 50	C413	ECQB1H153JZ	0.015 50	C603	ECEA25V2200	2200 25
332	ECQB1H822JZ	0.0082 50	C414	ECQB1H153JZ	0.015 50	C604	ECEA1CU331	<b>330</b> 16
235	ECQB1H223JZ	0.022 50	C415	ECQM1H224JZ	0.22 50	C605	ECEA1CU331	330 16
C36	ECQB1H223JZ	0.022 50	C416	ECQM1H224JZ	0.22 50	C606	ECKD1H103PF	0.01 50
	ECQB1H223JZ	0.022 50	C417	ECQM1H683JZ	0.068 50	C607	ECKD1H103PF	0.01 50
C37		0.022 50	C417	ECQM1H683JZ	0.068 50	C608	ECKD1H103PF	0.01 50
C38	ECQB1H223JZ							1000 10
C39	ECQB1H123JZ	0.012 50	C419	ECQM1H473JZ	0.047 50	C609	ECEA10V1000	
C40	ECQB1H123JZ	0,012 50	C420	ECQM1H473JZ	0.047 50	C610	ECEA10V1000	1000 10
C41	ECEA1HU010	1 50	C421	ECQB1H682JZ	0.0068 50	C611	ECKD2H682PEL	0,0068 500
C42	ECEA1HU010	1 50	C422	ECQB1H682JZ	0,0068 50	C612	ECKD1H103PF	0.01 50
C43	ECEA1HU010	1 50	C423	ECQB1H103JZ	0.01 50	C614	ECKD2H682PE	0.0068 500
C44	ECEA1HU010	1 50	C424	ECQB1H103JZ	0.01 50	C701	ECQB1H103JZ	0.01 50
C45	ECEA1CU100	10 16	C425	ECEA1CU100	10 16	C702	ECEA1CKS100	10 16
C46	ECEA1CU100	10 16	C426	ECEA1CU100	10 16	C705	ECKD1H103PF	0.01 50
C47		10 16	C427	ECEA1EU4R7	4.7 25	C707	ECEA1EK220	22 25
	ECEA1CU100		C428		4.7 25	C708	ECEA1EK220	22 25
C48	ECEA1CU100	10 16		ECEA1EU4R7				0.022 25
C49	ECQB1H223JZ	0.022 50	C429	ECEA1EU4R7	4.7 25	C709	ECBT1E223ZF	
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C301	ECQB1H123JZ	0.012 50	C432	ECKD1H681K	680P 50	C711	ECBT1H102KB	0.001 50
C302	ECQB1H123JZ	0.012 50	C434	ECKR1H103ZF5	0.01 50	C712	ECBT1H102KB	0.001 50
C303	ECKD1H122KB	0.0012 50	C435	ECKR1H103ZF5	0.01 50	C713	ECEA1HK010	1 50
C304	ECKD1H122KB	0.0012 50	C501	ECEA1AK220	22 10	C714	ECKD1H103PF	0,01 50
C305	ECQB1H223JZ	0.022 50	C502	ECEA1AK220	22 10	C715	ECBT1E223ZF	0.022 25
C306	ECQB1H223JZ	0.022 50	C503	ECQB1H153JZ	0.015 50	C716	ECBT1E223ZF	0.022 25
C307	ECQV1H104JZ	0.1 50	C504	ECQB1H153JZ	0.015 50	C801	ECQB1H822JZ	0.0082 50
			C505	ECKD1H331KB	330P 50	C802	ECEA1CU100	10 16
C308	ECQV1H104JZ				330P 50	C803	ECCD1H470K	47P 50
C309	ECCD1H121K	120P 50	C506	ECKD1H331KB				
C310	ECCD1H121K	120P 50	C507	ECEA1HK1R5	1.5 50	C804	ECEA1HU010	1 50
C311	ECKD1H821KB	820P 50	C508	ECEA1HK1R5	1.5 50	C805	ECEA1CU471	470 16
C312	ECKD1H821KB	820P 50	C509	ECEA1AN220S	22 10	C806	ECEA1CU100	10 16
C313	ECKD1H223PF	0.022 50	C510	ECEA1AN220S	22 10	C807	ECEA1EU4R7	4.7 25
C314	ECKD1H223PF	0.022 50	C511	ECEA1EK3R3B	3.3 25	C809	ECKR1H103ZF5	0.01 50
C315	ECCD1H100KC	10P 50	C512	ECEA1EK3R3B	3.3 25	C901	ECEA1EU4R7	4.7 25
C316	ECQP1183JZ	0.018 100	C513	ECQV1H104JZ	0,1 50	C902	ECEA1HU2R2	2.2 50
C317	ECEA1EU221	220 25	C514	ECQV1H104JZ	0.1 50	C903	ECEA0JU222	2200 6.3
C318	ECQB1H562JZ	0.0056 50	C515	ECQV1H104JZ	0.1 50	C904	ECKD1H103PF	0.01 50
	ECQB1H472JZ	0.0047 50	C516	ECQV1H104JZ	0.1 50	C905	ECCD1H330J	33P 50
C319			•			C906		33P 50
C320	ECQB1H472JZ	0.0047 50	C517	ECQB1H332JZ	0.0033 50		ECCD1H330J	
C321	ECQB1H472JZ	0.0047 50	C518	ECQB1H332JZ	0.0033 50	C907	ECEA1CN100S	10 16
C322	ECQM1H473JZ	0.047 50	C519	ECQB1H332JZ	0.0033 50	C908	ECEA1HU010	1 50
C323	ECEA1CU100	10 16	C520	ECQB1H332JZ	0.0033 50	C909	ECEA1CU100	10 16
C324	ECEA1AU101	100 10	C521	ECKD1H331KB	330P 50	C911	ECEA1CU101	100 16
C325	ECKD1H103PF	0.01 50	C522	ECKD1H331KB	330P 50	C912	ECKD1H103PF	0.01 50
C401	ECKD1H122KB	0.0012 50	C523	ECQV1H184JZ	0.18 50	C915	ECEA1HU010	1 50
			C524	ECQV1H184JZ	0.18 50	C916	ECBT1E223ZF	0.022 25
C402	ECKD1H122KB	0.0012 50	U324	COMPTITIONS	0.10 30	0310	LUDITELLOLF	ט.טבב בט

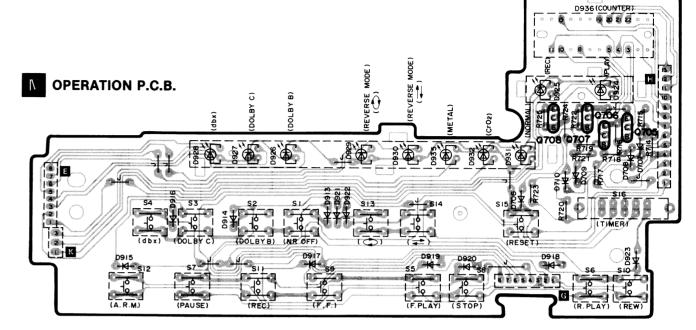
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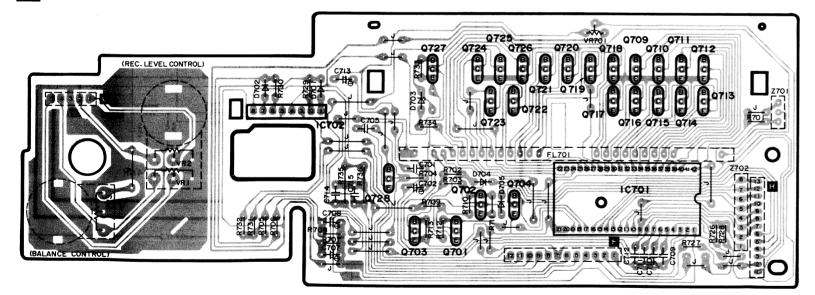
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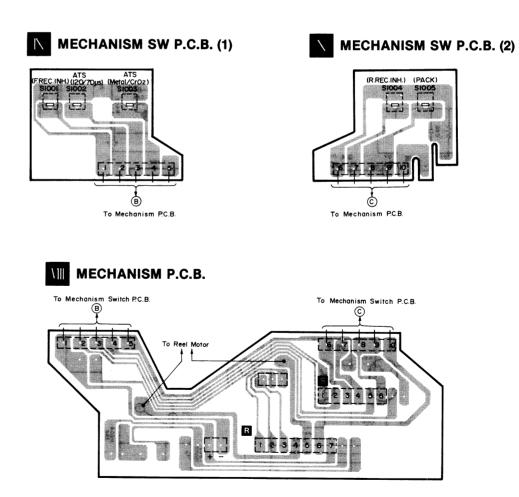
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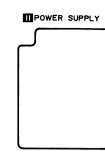




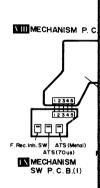
# **VOLUME/METER P.C.B.**

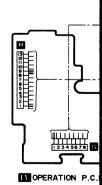




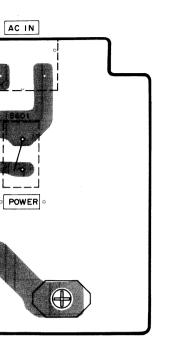


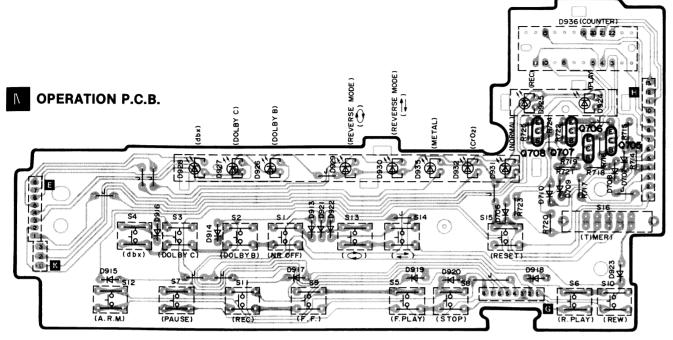


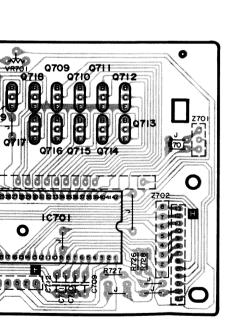


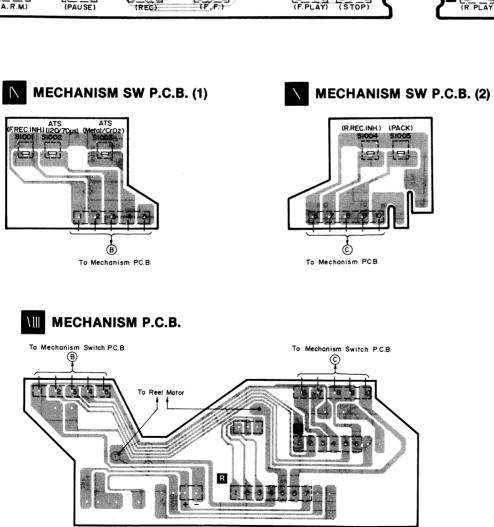


<u>15 , 16 , 17 , 18 , 19 , 20</u>

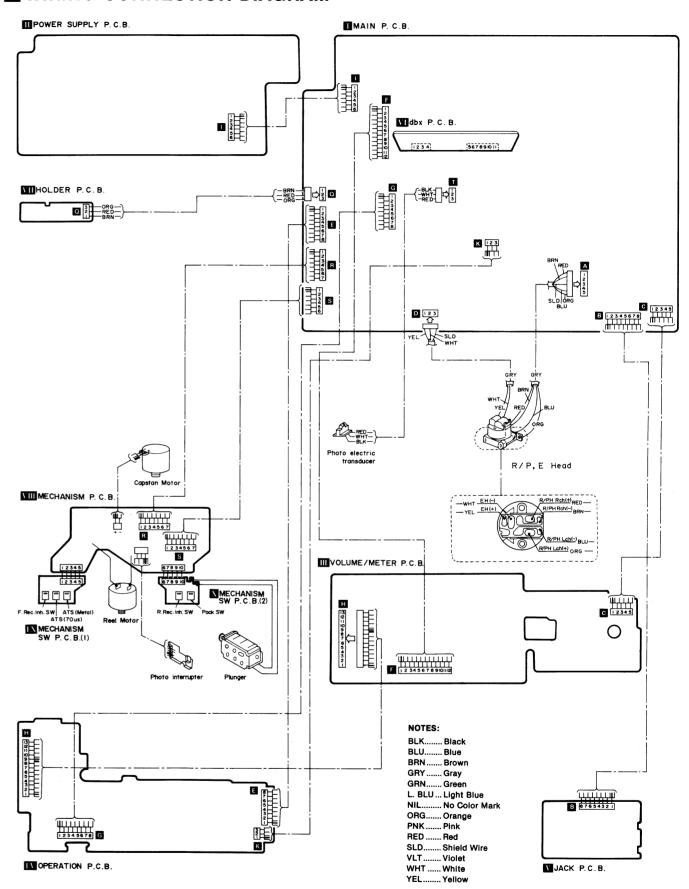


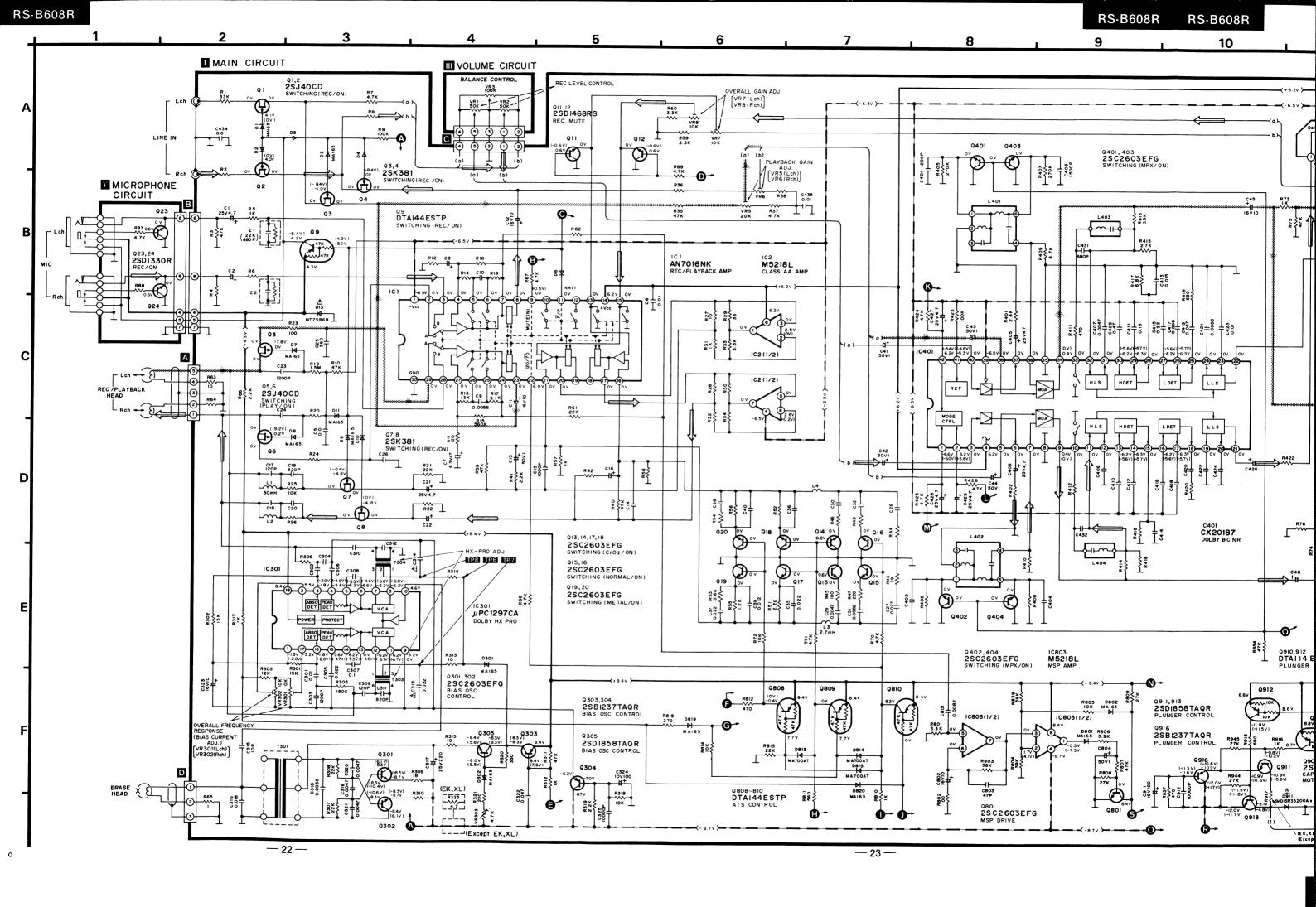


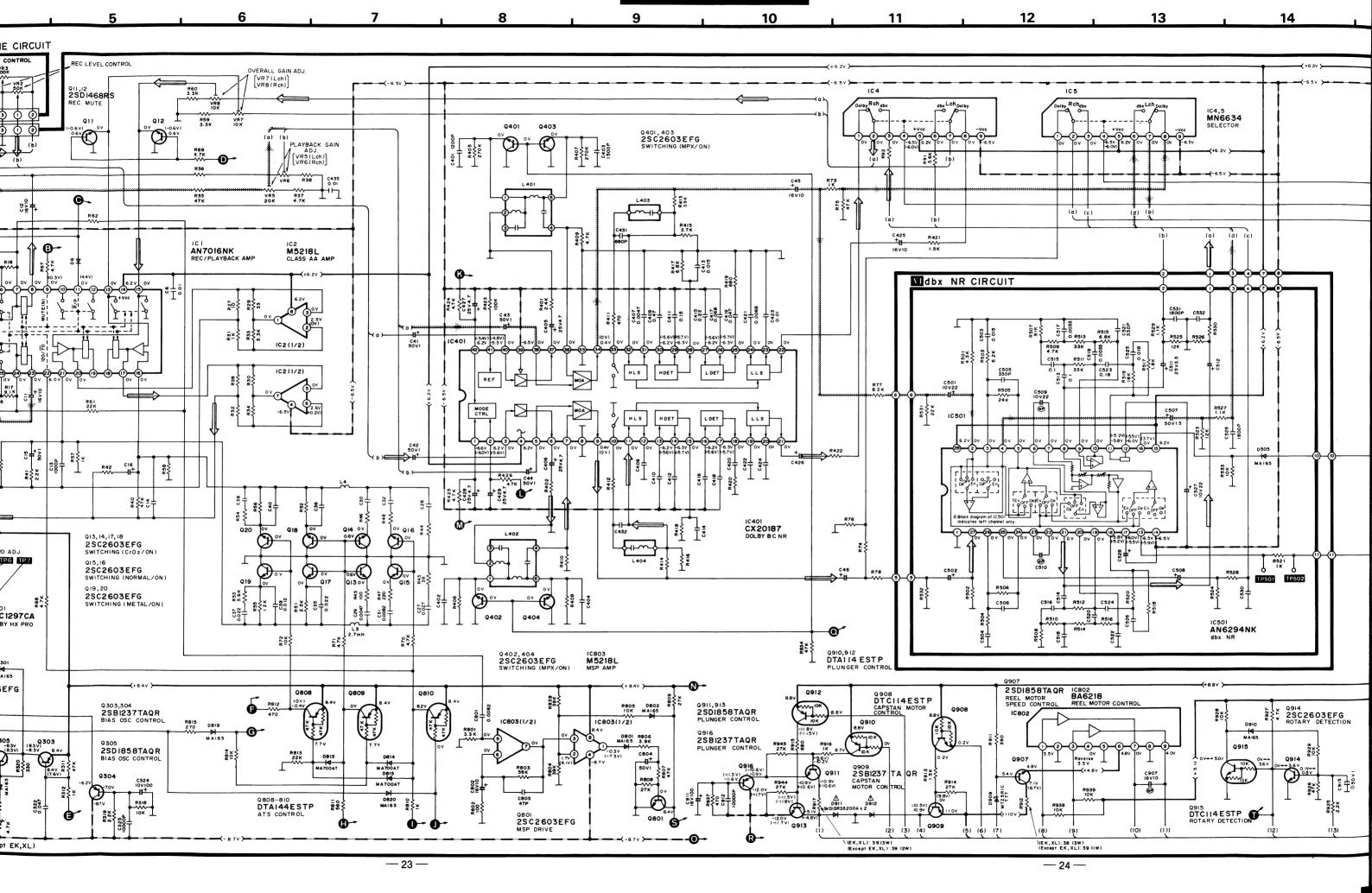


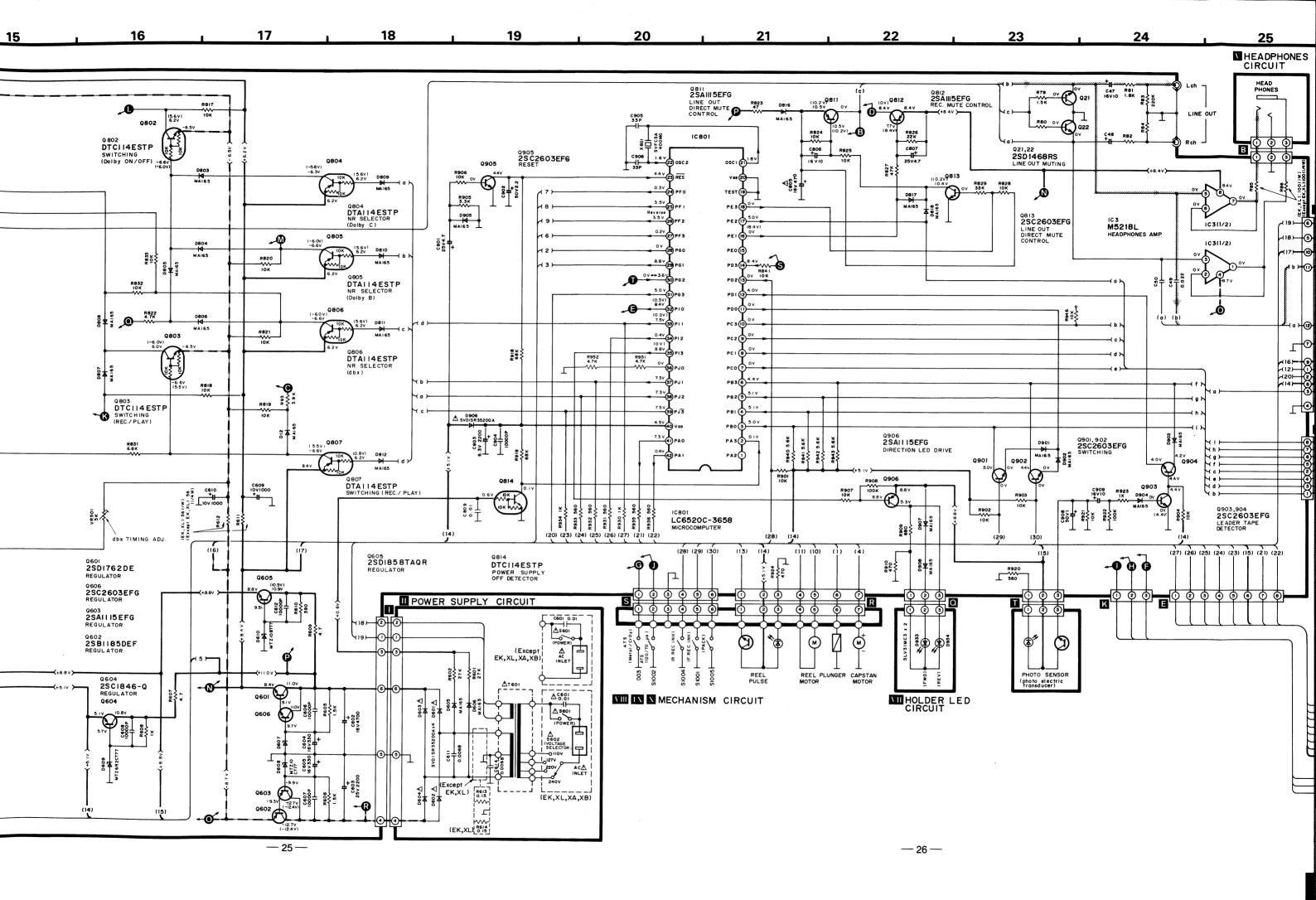


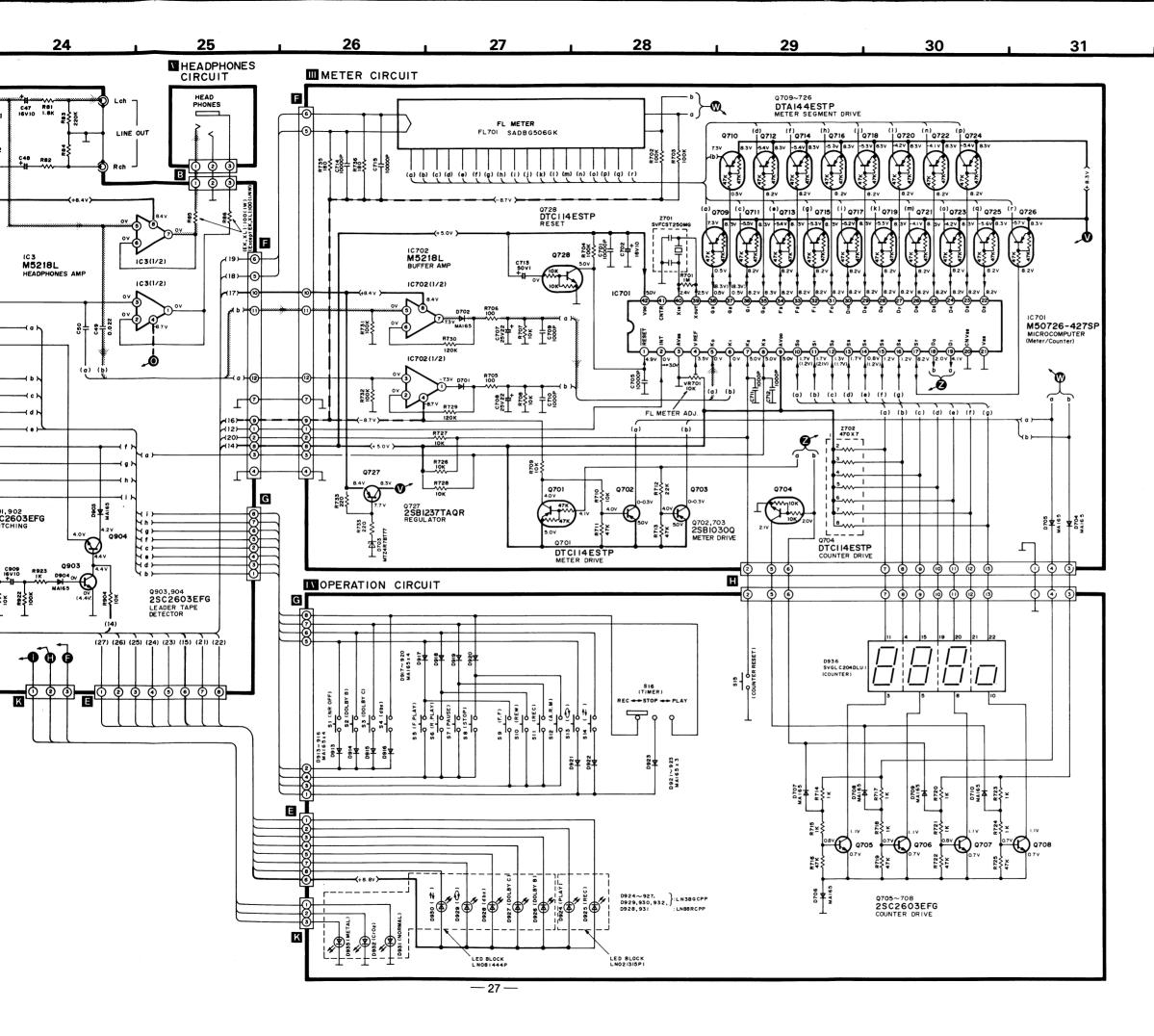
# **■ WIRING CONNECTION DIAGRAM**











# SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

### Notes:

• S1 : NR off switch in "off" position. • S2 : Dolby B NR switch in "off" position. Dolby C NR switch in "off" position.

: dbx NR switch in "off" position. • S5 Forward-side Playback switch in "off" position.

: Reverse-side Playback switch in "off" position. • S6

• S7 Pause switch in "off" position.

• S8 Stop switch in "off" position.

: F.F. switch in "off" position.

• S10 Rew. switch in "off" position.

Record switch in "off" position. • S11

• S12 : Auto rec. mute switch in "off" position.

Reverse mode selector ( ) in "off" position.
Reverse mode selector ( ) in "off" position. • S13

• S15 : Tape counter reset button in "off" position.

• \$16 : Timer stand-by switch in "off" position.

• \$601 : Power switch in "on" position. • S602

: Voltage selector in "240 V" position. (EK, XL, XA, XB) areas

• \$1001: Forward-side Rec. inhibit switch in "off" position.

• \$1002: ATS (120/70μs) in "off (70μs)" position.

• S1003: ATS (Metal/CrO2) in "off (Metal)" position.

• \$1004: Reverse-side Rec. inhibit switch in "off" position.

• \$1005: Pack switch in "off" position.

• Resistance are in ohms  $(\Omega)$ , 1/4 watt unless specified otherwise.  $1 K = 1,000 (\Omega), 1 M = 1,000 k (\Omega)$ 

• Capacity are in micro-farads (μF) unless specified otherwise.

· All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.

( )...... .... Voltage values at record mode.

For measurement us EVM.

• Important safety notice

Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

• ( + B > ) indicates + B (bias).

• (BBBB< -B>BBBB) indicates -B (bias).

• ( ) indicates the flow of the playback signal.

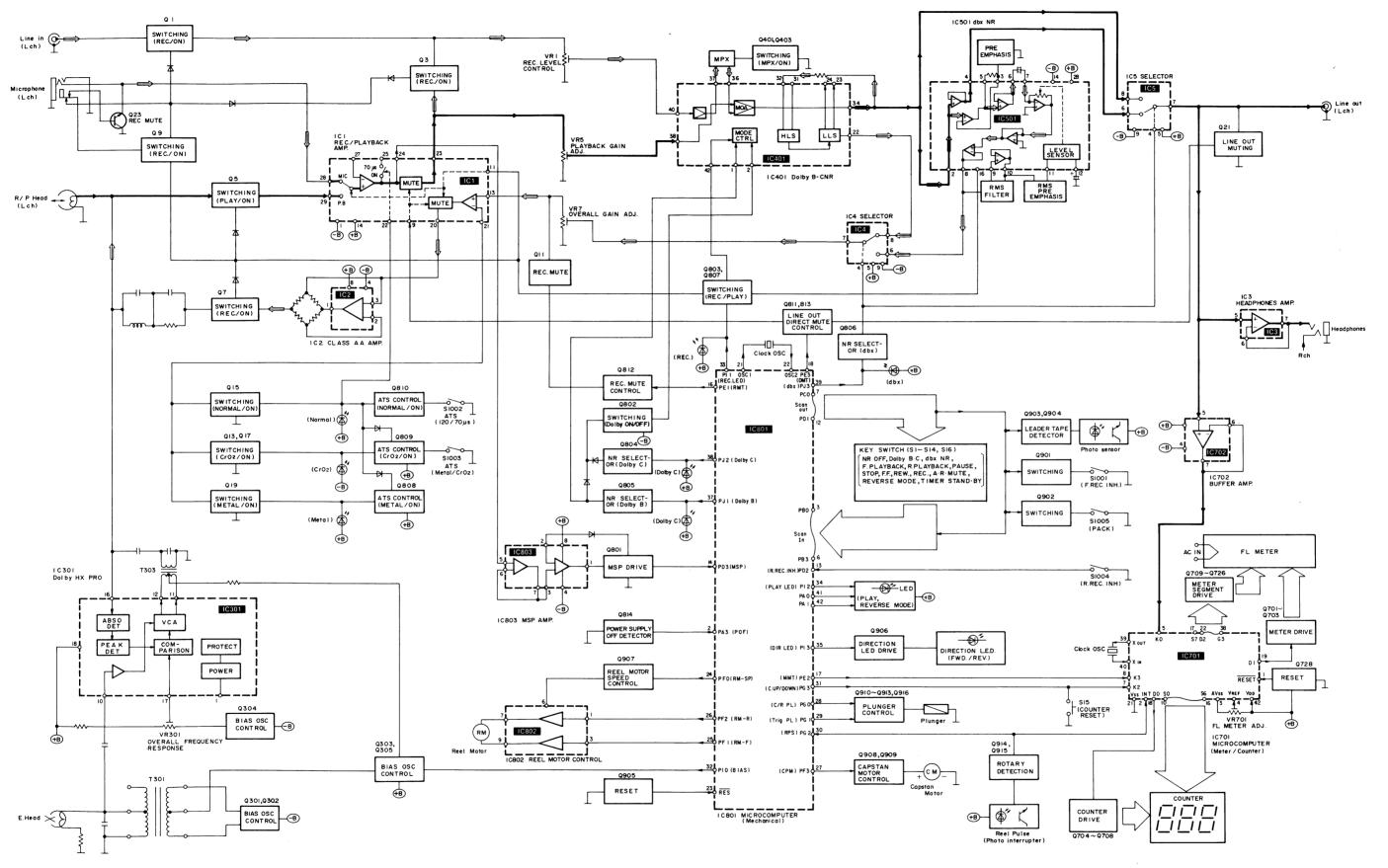
• ( ) indicates the flow of the record signal.

# \* Caution!

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during

- \* Cover the parts boxes made of plastics with aluminum foil.
- \* Ground the soldering iron.
- \* Put a conductive mat on the work table.
- \* Do not touch the legs of IC or LSI with the fingers directly.

# **■ BLOCK DIAGRAM**



# NOTES:

(→): Playback signal (□): Recording signal

# REPLACEME

Notes: \* Important safety not Components identifi manufacturer's spe \* Bracketed indication Parts without these

Ref. No.	Part No.
INTEGRATED CI	RCUITS
IC1	AN7016NK
IC2	M5218L
IC3	M5218L
IC4	MN6634
1 C5	MN6634
1 C301	UPC1297CA
I C401	CX20187
I C501	AN6294NK
1 C701	M50726-427SP
1 C702	M5218L
I C801	LC6520C-3658
1 C802	BA6218
1 C803	M5218L
TRANSISTORS	
Q1	2SJ40CD
Q2	2SJ40CD
C3	2SK381
Q4	2SK381
Q5	2SJ40CD
Q6 07	2SJ40CD
Q7	2SK381
Q8	2SK381
Q9	DTA144ESTP
Q11	2SD1468R
Q12	2SD1468R
Q13 :	2SC2603EFG
Q14	2SC2603EFG
Q15	2SC2603EFG
Q16	2SC2603EFG
Q17	2SC2603EFG
Q18	2SC2603EFG
Q19	2SC2603EFG
Q20	2SC2603EFG
Q21	2SD1468R
Q22	2SD1468R
Q23	2SD1330R
024	2SD1330R 2SC2603EFG
Q301 Q302	2SC2603EFG
Q303	2SB1237TAQR
Q304	2SB1237TAQR
9305	2SD1858TAQR
Q307	DTA144ESTP
Q308	DTA144ESTP
Q309	DTA144ESTP
Q401	2SC2603EFG
Q402	2SC2603EFG
Q403	2SC2603EFG
Q404	2SC2603EFG
Q601	2SD1762DE
Q602	2SB1185DEF
Q603	2SA1115E
Q604	2SC1846-Q
Q605	2SD1858TAQR
Q606	2SC2603EFG
Q701	DTA144ESTP
Q702	2SB1030Q.
Q703	2SB1030Q.
Q704	DTC114ESTP
Q705	2SC2603EFG
Q706	2SC2603EFG
Q707	2SC2603EFG
Q708	2SC2603EFG
Q709	DTA144ESTP
Q710	DTA144ESTP
Q711	DTA144ESTP
Q712	DTA144ESTP
Q713	DTA144ESTP
Q714	DTA144ESTP
Q715	DTA144ESTP

# ■ REPLACEMENT PARTS LIST

Notes: \* Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

\* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

INTEGRATED CII IC1 IC2 IC3 IC4	RCUITS AN7016NK				
1C2 1C3	ANIZO1CNIV		Q716	DTA144ESTP	TRANSISTOR
1C3	ANUTOINA	I.C.REC/PLAYBACK AMP	Q717	DTA144ESTP	TRANSISTOR
	M5218L	I.C.CLASS AA AMP	Q718	DTA144ESTP	TRANSISTOR
IC4	M5218L	I.C.HEAD PHONE AMP	Q719	DTA144ESTP	TRANSISTOR
	MN6634	I.C.SELECTOR	Q720	DTA144ESTP	TRANSISTOR
1C5	MN6634	I.C.SELECTOR	Q721	DTA144ESTP	TRANSISTOR
I C301	UPC1297CA	I.C.DOLBY HX PRO	Q722 Q723	DTA144ESTP	TRANSISTOR
I C401	CX20187	I.C.DOLBY B C NR	0724	DTA144ESTP DTA144ESTP	TRANSISTOR TRANSISTOR
IC501 IC701	AN6294NK M50726-427SP	I.C, DBX NR I.C.MICRO COMPUTER	Q725	DTA144ESTP	TRANSISTOR
10702	M5218L	I,C,BUFFER AMP	0726	DTA144ESTP	TRANSISTOR
1C801	LC6520C-3658	I.C.MICRO COMPUTER	Q727	2SB1237TAQR	TRANSISTOR
1 C802	BA6218	I.C.REEL MOTOR CONTROL	Q728	DTC114ESTP	TRANSISTOR
I C803	M5218L	I.C.MSP AMP	Q801	2SC2603EFG	TRANSISTOR
TRANSISTORS			<b> 0802</b>	DTC114ESTP	TRANSISTOR
Q1	2SJ40CD	TRANSISTOR	<b></b>   <b>Q803</b>	DTC114ESTP	TRANSISTOR
œ œ	2SJ40CD 2SJ40CD	TRANSISTOR	Q804	DTA114ESTP	TRANSISTOR
<u>03</u>	2SK381	TRANSISTOR	Q805	DTA114ESTP	TRANSISTOR
Q4	2SK381	TRANSISTOR	Q806	DTA114ESTP	TRANSISTOR
Q5	2SJ40CD	TRANSISTOR	Q807	DTA114ESTP	TRANSISTOR
Q6	2SJ40CD	TRANSISTOR	Q808	DTA144ESTP	TRANSISTOR
Q7	2SK381	TRANSISTOR	Q809 Q810	DTA144ESTP DTA144ESTP	TRANSISTOR TRANSISTOR
Q8	2SK381	TRANSISTOR	Q811	2SA1115E	TRANSISTOR TRANSISTOR
Q9	DTA144ESTP	TRANSISTOR	Q812	2SA1115E	TRANSISTOR
Q11	2SD1468R	TRANSISTOR	Q813	2SC2603EFG	TRANSISTOR
Q12	2SD1468R	TRANSISTOR	Q814	DTC114ESTP	TRANSISTOR
Q13 :	2SC2603EFG	TRANSISTOR	Q901	2SC2603EFG	TRANSISTOR
Q14	2SC2603EFG	TRANSISTOR	0902	2SC2603EFG	TRANSISTOR
Q15	2SC2603EFG	TRANSISTOR	Q903	2SC2603EFG	TRANSISTOR
Q16	2SC2603EFG	TRANSISTOR	Q904	2SC2603EFG	TRANSISTOR
Q17 Q18	2SC2603EFG 2SC2603EFG	TRANSISTOR	Q905	2SC2603EFG	TRANSISTOR
Q19	2SC2603EFG	TRANSISTOR TRANSISTOR	Q906	2SA1115E	TRANSISTOR
Q20	2SC2603EFG	TRANSISTOR	Q907	2SD1858TAQR	TRANSISTOR
021	2SD1468R	TRANSISTOR	Q908	DTC114ESTP	TRANSISTOR
022	2SD1468R	TRANSISTOR	Q909	2SB1237TAQR	TRANSISTOR
023	2SD1330R	TRANSISTOR	Q910	DTA114ESTP	TRANSISTOR
Q24	2SD1330R	TRANSISTOR	Q911 Q912	2SD1858TAQR DTA114ESTP	TRANSISTOR
Q301	2SC2603EFG	TRANSISTOR	Q913	2SD1858TAQR	TRANSISTOR TRANSISTOR
Q302	2SC2603EFG	TRANSISTOR	Q914	2SC2603EFG	TRANSISTOR
Q303	2SB1237TAQR	TRANSISTOR	0915	DTC114ESTP	TRANSISTOR
Q304	2SB1237TAQR	TRANSISTOR	Q916	2SB1237TAQR	TRANSISTOR
Q305	2SD1858TAQR	TRANSISTOR	DIODES		
Q307	DTA144ESTP	TRANSISTOR	DI	MA165	DIODE
Q308 0309	DTA144ESTP DTA144ESTP	TRANSISTOR	D2	MA165	DIODE
Q309 Q401	2SC2603EFG	TRANSISTOR TRANSISTOR	03	MA165	DIODE
Q402	2SC2603EFG	TRANSISTOR	D4	MA165	DIODE
Q403	2SC2603EFG	TRANSISTOR	D5	MA165	DIODE
Q404	2SC2603EFG	TRANSISTOR	D6	MA165	DIODE
Q601	2SD1762DE	TRANSISTOR	D7	MA165	DIODE
Q602	2SB1185DEF	TRANSISTOR	D8	MA165	DIODE
Q603	2SA1115E	TRANSISTOR	D9	MA165	DIODE
Q604	2SC1846-Q	TRANSISTOR	D10	MA165	DIODE
Q605	2SD1858TAQR	TRANSISTOR	D11	MA165	DIODE
Q606	2SC2603EFG	TRANSISTOR	D12	MA165	DIODE
Q701	DTA144ESTP	TRANSISTOR	D13 △	MTZ5R6B	DIODE
Q702	2SB1030Q	TRANSISTOR	D301	MA165	DIODE
Q703	2SB1030Q	TRANSISTOR	D302	MA165	DIODE
Q704 0705	DTC114ESTP	TRANSISTOR	D304	MA165	DIODE
Q705 0706	2SC2603EFG	TRANSISTOR	D505	MA165 SVD1SR35200A	DIODE
Q706 0707	2SC2603EFG	TRANSISTOR	D601	SVD1SR35200A SVD1SR35200A	RECTIFIER RECTIFIER
Q707 Q708	2SC2603EFG 2SC2603EFG	TRANSISTOR TRANSISTOR	D602	SVD1SR35200A	RECTIFIER
Q709	DTA144ESTP	TRANSISTOR TRANSISTOR	D604 A	SVD1SR35200A	RECTIFIER
Q710	DTA144ESTP	TRANSISTOR	D605	MA165	DIODE
Q711	DTA144ESTP	TRANSISTOR	D606	MA165	DIODE
Q712	DTA144ESTP	TRANSISTOR	D607	MTZ10CT77	DIODE
Q713	DTA144ESTP	TRANSISTOR	D608	MTZ10CT77	DIODE
Q714	DTA144ESTP	TRANSISTOR	D609	MTZ6R2CT77	DIODE
War 177	DTA144ESTP	TRANSISTOR	D610	MTZ10BT77	DIODE

yback signal cording signal

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D701	MA165	DIODE	VR1	EWK94A033A54	V.R.REC LEVEL
D702	MA165	DIODE	VR2	EWK94A033A54	V.R.REC LEVEL
D703	MTZ4R7BT77	DIODE	VR3	EWHFDAF20G15	V,R,BALANCE
D704	MA165	DIODE	VR5	EVND4AA00B24	V.R.PLAYBACK GAIN
D705	MA165	DIODE	VR6	EVND4AA00B24	V.R.PLAYBACK GAIN
D706	MA165	DIODE	VR7	EVND4AA00B14	V.R.OVERALL GAIN
D707	MA165	DIODE	VR8	EVND4AA00B14	V.R.OVERALL GAIN
D708	MA165	DIODE	VR301	EVND4AA00B14	V.R.OVERALL GRAIN V.R.OVERALL FREQUENCY
D709	MA165	DIODE	VR302	EVND4AA00B14	
D710	MA165	DIODE	VR303		V.R.OVERALL FREQUENCY
D801	MA165	DIODE		EVND4AA00B53	V.R, ERASE CURRENT ADJ.
D802		DIODE	VR501	EVND4AA00B53	V.R.DBX TIMING
D803	MA165 MA165	DIODE	VR701	EVND1AA00B14	V.R. FL METER ADJ.
D804			COILS AND TRA	NSFORMERS	
	MA165	DIODE	L1	SLQX303-1K	CHOKE COIL
D805	MA165	DIODE	L2	SLQX303-1K	CHOKE COIL
D806	MA165	DIODE	L3	SLQX272-1YT	CHOKE COIL
D807	MA165	DIODE	L4	SLQX272-1YT	CHOKE COIL
D808	MA165	DIODE	L401	QLM9Z10K	M.P.X. COIL
D809	MA165	DIODE	L402	QLM9Z10K	M.P.X. COIL
D810	MA165	DIODE	L403	SLM1B12-K	COIL
D811	MA165	DIODE	L404	SLM1B12-K	COIL
D812	MA165	DIODE	T301	QLB0202	M.P.X. COIL
D813	MA700AT	DIODE	T303	SL09B1-K	OSCILLATOR COIL
D814	MA700AT	DIODE	T304	SL09B1-K	OSCILLATOR COIL
D815	MA700AT	DIODE	T601 ∆∆	SLT5V32-W	POWER TRANSFORMER
D816	MA165	DIODE	(E, EH, EG)		
D817 D818	MA165	DIODE	T601 △	SLT5V33-W	POWER TRANSFORMER
D819	MA165 MA165	DIODE DIODE	(EK, XL)		
D820	MA165	DIODE	T601 ⚠	SLT5V34-W	POWER TRANSFORMER
D901	MA165	DIODE	(XA, XB)		
D902	MA165	DIODE	COMPONENT CO	OMBINATIONS	
D903	MA165	DIODE	Z1	EXRP681K223T	COMPONENT COMBINATION
D904	MA165	DIODE	Z2	EXRP681K223T	COMPONENT COMBINATION
D905	MA165	DIODE	Z701	SVFCST250MG	CERAMIC FILTER
D906 A	SVD1SR35200A	RECTIFIER	Z702	EXBF8E471J	COMPONENT COMBINATION
D907	MA165	DIODE	OSCILLATORS	2/10/ 024/10	COM CITETY COMPTITY FOR
D908	MA165	DIODE			
D909	MTZ5R1CT77	DIODE	X801	SVFCSA400MG	CRYSTAL OSC.
D910	MA165	DIODE	DISPLAYS		
D911 △	SVD1SR35200A	RECTIFIER	FL701	SADBG506GK	DISPLAY TUBE
D912 △	SVD1SR35200A	RECTIFIER	SWITCHES		
D913	MA165	DIODE	S1	EVQQB005R	SW,NR OFF
D915	MA165	DIODE	S2	EVQQB005R	SW.DOLBY B NR
D916	MA165	DIODE	S3	EVQQB005R	
D917	MA165	DIODE	53   \$4	EVQQB005R	SW.DOLBY C NR SW.DBX NR
D918	MA165	DIODE	S5	EVQQB005R	SW.FORWARD PLAYBACK
D919	MA165	DIODE	S6	EVQQB005R	SW.REVERSE PLAYBACK
D920	MA165	DIODE	S7	EVQQB005R	SW.PAUSE
D921	MA165	DIODE	S8	EVQQB005R	SW.STOP
D922	MA165	DIODE	S9	EVQQB005R	SW.F.F.
D923	MA165	DIODE	S10	EVQQB005R	SW,REW
D924	LN38GCPP	L.E.D	S11	EVQQB005R	SW.RECORD
D925	LN88RCPP	L.E.D	S12	EVQQB005R	SW.AUTO REC MUTE
D926	LN38GCPP	L.E.D	S13	EVQQB005R	SW.REVERS MODE
D927	LN38GCPP	L.E.D	S14	EVQQB005R	SW, REVERS MODE
D928	LN88RCPP	L.E.D	S15	EVQQB005R	SW,TAPE COUNTER RESET
D929	LN38GCPP	L.E.D	S16	SSS147-1	SW.TIMER STAND BY
D930	LN38GCPP	L.E.D	S601 △	ESB8249V	SW.POWER
D931	LN88RCPP	L.E.D	S602 A	SSR187-1	SW, VOLTAGE SELECTOR
D932	LN38GCPP	L.E.D	(EK, XA, XB)	JOHIOT-1	OII, FOLIAGE OLLEGION
D933	SLV31MC3	L.E.D	(XL)		
D934	SLV31MC3	L.E.D	S1001	SMQ.A1252	SW, FORWARD REC INHIBIT
D935	LN48YCPPU	L.E.D	S1002	SMQ.A1252	SW,ATS
D936	SVGLC204DLU1	L.E.D	S1003	SMQ.A1252	SW,ATS
VARIABLE RES	ISTORS		S1004	SMQ.A1252	SW. REVERSE REC INHIBIT
			S1005	SMQA1252	SW.PACK
1					

# **■ MECHANICAL PARTS LOCATION**

# SPECIFICATIONS

NOTE: The value indicated by the torque tape may fluctuate during torque measurement.
In that case, obtain the middle of the values.

Takenup tension  * Use cassette torque meterQZZSRKCT	45 ± 15 g-cm
Wow and flutter  * Use test tapeQZZCWAT	Less than 0.07 % (WRMS) (EG) 0.08 % (WRMS) (E, EH, EK) 0.08 % (WRMS) (others)

# NOTES:

 When changing mechanism parts. apply the specified grease to the are marked "x x" shown in the drawing "Mechanical Parts Location".

Ref. No.	Part Name	Part No.
0	MOLYKOTE	RZZ0L05

idle of the values.		138	$\langle \cdot \rangle$			
45±15g-cm	160			143		
Less than 7% (WRMS) (EG) 8% (WRMS) (E, EH, EK) 8% (WRMS) (others)		133 152	164	148		
ts. apply the specified 'shown in the drawing	159	151	164	157	162	155-8
Part No. RZZ0L05	(126)	123	122		153 S1002 155-3	155-7
	(125)			139	S1001 S1003	\$1004
116	114 119 115		134	137	155-2	CHANISM B.
	112	113		128	110 P.C.	в. ✔
	109	111			<b>&gt;0</b>	
			- all	135		
1	102	08				
	105					

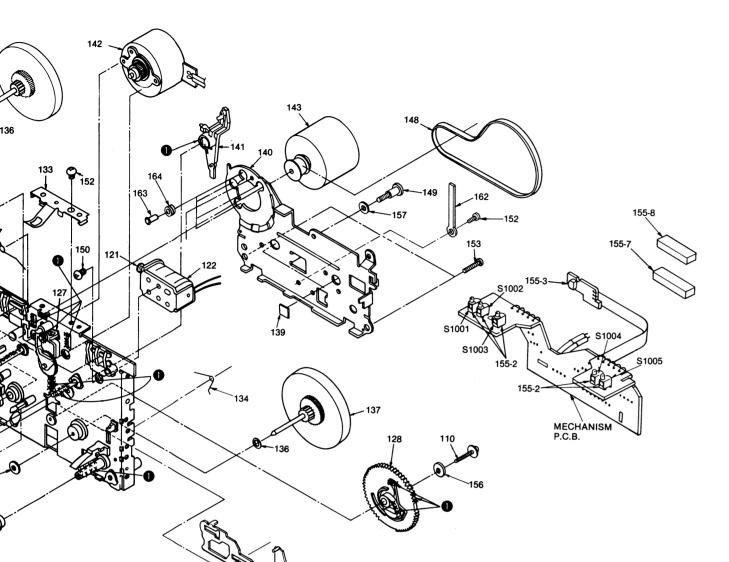
		159 160			158 1	151	152	2 150 142 162	161 163 164 14	1 143	157 148 149 16	62 156 153 163 164	165
124	125	126	132	130	131	123	133 127	121	122 134	140 139 136	137 128	155-2 155-3	155-7 155-8
101106116 102 101112	107 1	104 109 1	05 102119 114	118	120115	108 111113	117				1	10	

<del>--- 34 ---</del>

— 33 —

# REPLACE

Ref. No.	Part N
CASSETTE DECK	(
101	XYN2+C5
102	SMQ.A1269
105	SMQ.A1228
108	SMQ.A1229
109	SMQA1004
110	SMQ.A1230
111	SMQ.A1231
112	SMQ.A1232
113	SMQA1007
114	SMQA1091
115	SMQA1014
116	SMQA1056
117	SMQA1027
118	SMQA1010
119	SMQA1013
120	SMQA1026
121	SMQ.A1212
122	SMQA1233
123	SMQ.A1257
124	SMQA1235
125	SMQA1055
126	SMQA1012
127	SMQA1061
128	SMQA1258
129	SMQ.A1054
130	SMQA1282
131	SMQ.A1259
132	SMQA1237



152	2 150 142 162	161 163 164 141	143	157 148 149 162	156 153 163 164	165
133 127	121	122 134	140 139 136	137 128	155-2 155-3	155-7 155-8
3 117				110		

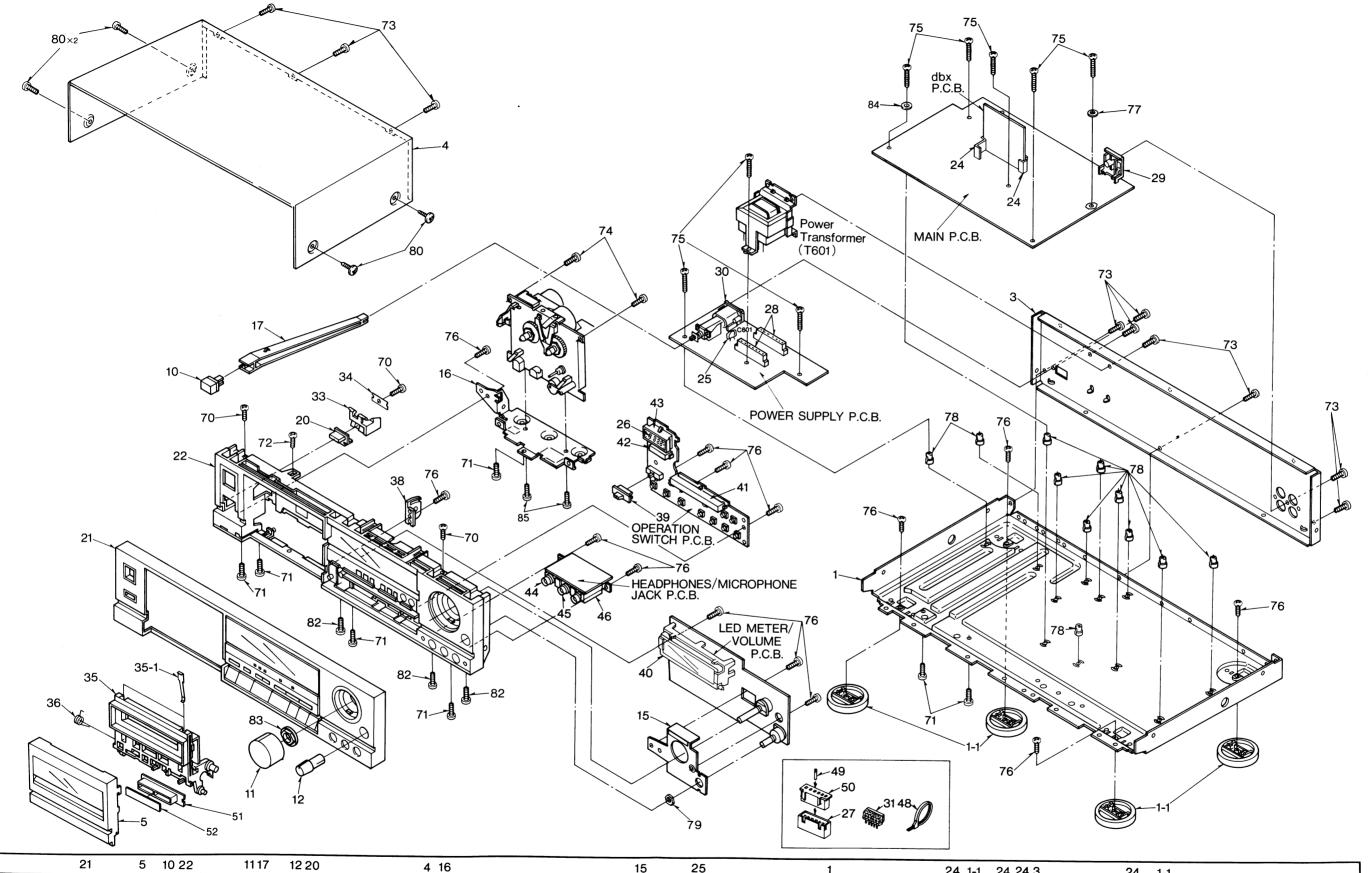
<del>--- 34 ---</del>

# ■ REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CASSETTE DECI			133	SMQA1062	PLATE
101	XYN2+C5	SCREW	134	SMQ.A1238	SLIDE SP
102	SMQA1269	HEAD	135	SMQA1239	SLIDE BOARD
105	SMQA1228	PHOTO ELECTRIC TRANSDUCER	136	SMQA1031	WASHER
108	SMQA1229	HEAD BASE	137	SMQA1032	WHEEL
109	SMQA1004	SPRING	138	SMQA1096	WHEEL
110	SMQA1230	SCREW	139	SMQA1097	SPACER
111	SMQA1231	PINCH ROLLER	140		
112	SMQA1232	PINCH ROLLER		SMQA1240	BRACKET
113	SMQA1007	WASHER	141	SMQ.A1241	ARM
114	SMQ.A1091	WASHER (LABEL)	142	SMQA1242	MOTOR (REEL)
115	SMQA1014	WASHER	143	SMQA1283	MOTOR (MAIN)
116	SMQA1056	HOLD LEVER	148	SMQA1074	FLAT BELT
117	SMQ.A1027	SPRING	149	SMQ.A1247	SCREW
118	SMQA1010	WASHER	150	XYN26+C4	SCREW
119	SMQ.A1013	REEL	151	XYN26+C6	SCREW
120	SMQA1026	REEL	152	XSN3+5S	SCREW
121	SMQ.A1212	PLUNGER CAP	153	XTN26+8J	SCREW
122	SMQ.A1233	PLUNGER COIL	154	SMQA1076	HOLDER
123	SMQA1257	CHASSIS ASS/Y	155-2	SMQA1252	SW
124	SMQA1235		155-3	SMQ.A1041	PH. INTERRUPTER
		SCREW	155-7	SJT30643-V	CONNECTOR(6P)
125	SMQA1055	ARM	155-8	SJT30740LX-V	CONNECTOR(7P)
126	SMQ.A1012	SPRING	156	XWE2	WASHER
127	SMQ.A1061	IDLER PULLEY	157	XWA26B	WASHER
128	SMQ.A1258-1	GEAR	159	SMQ.A1267-1	EJECT ARM
129	SMQA1054	PLATE	160	XSN3+10S	SCREW
130	SMQA1282	LEVER	161	SMQ.A1284	COLLOR
131	SMQ.A1259	LEVER	162	SMQ.A1071	TERMINAL
132	SMQA1237	METAL LEVER	163 164	SMQA1078 SMQA1077	SCREW RUBBER SPACER

— 35 <del>—</del>

# **■ CABINET PARTS LOCATION**



4 16 25 15 24 1-1 24 24 3 24 1-1 35 36 35-1 33 34 38 44 45 46 26 42 40 43 39 30 41 28 49 50 27 3148 29 80×2 7052518371 72 82 71 70 82 73 71 80×2 70 76 85 71 82 70 74 75 76 79 76 75 7178 76 84 76 7676 75 73 77 78 73 76 73

> **— 36 —** <del>--- 37 ---</del>

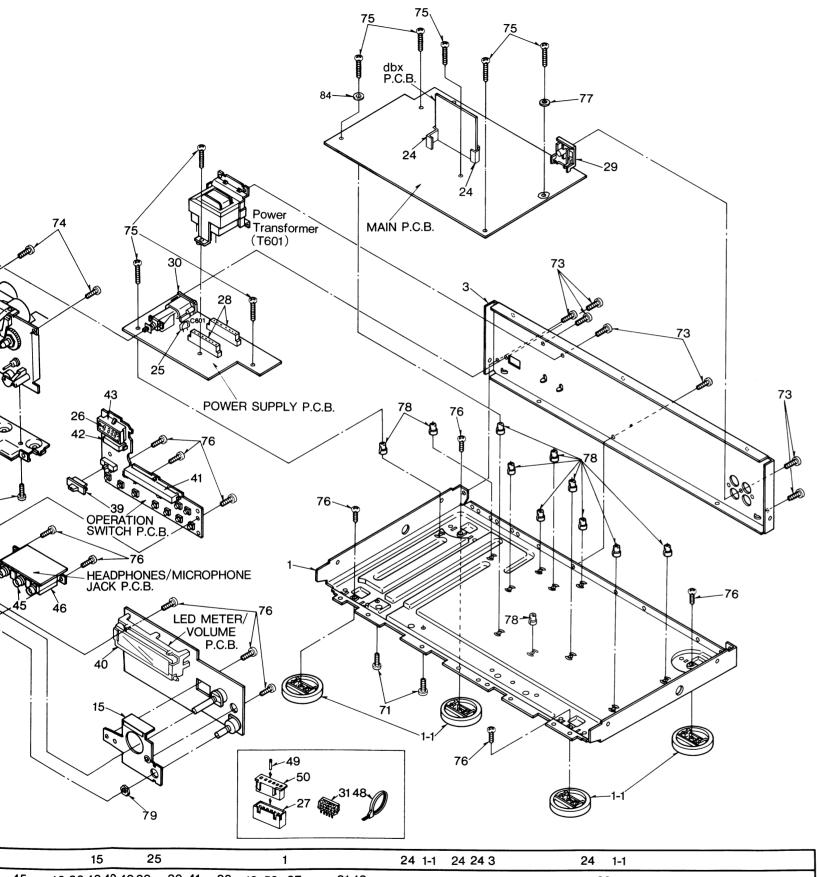
# REPLACEM

Notes: \* Important safet
Components id
manufacturer's
\* Bracketed indic
Parts without th

- \* "\(\mathbb{C}\)" mark parts
  \* "\(\mathbb{S}\)" mark parts
- Parts other than

	Parts	otner tha
Ref.	No.	Part No
CABINI	ET AND CH	HASSIS
1		SKUSB608-1
1-1		SKL313
3		SGP7160-1J
(EK)		
3		SGP7160-1K
(XL)		0007100 44
3   (XA, XE	2)	SGP7160-1L
3	)	SGP7160W
(E)		SUPTIOUN
3		SGP7160X
(EH, EC	3)	0G/ 1100X
4	(R)	SKC2111K99
4	S	SKC2111S98
5	Ŕ	SGE1914
5	S	SGE1914-1
10	®	SBC666-5
10	S	SBC666
111	®	SYTM10ZCO/
lii	S	SYTM10ZSO
12	®	SBDM10ZK0
12	S	SBDM10MA0
15	•	SUWSB608R-
16		SMQ30051
17		SUB268
20	Ø	SBC736-1
20	_	SBC736
21	Ø	SGWSB608-K
21	-	SGWSB608-S
22	⊗	SGXSB608-K
22	(S)	SGXSB608-S
24	•	SME103-4
25		SMX897
26		SVGLC204DI
27		EMCS1350ZL
27		SJSD0805
27		SJT3319
27		SJT3511
28		SJS501
29		SJF3057N
30	Δ	SJSD16
(XL)		

Ref.	NO.	Рап	NO.
PACK	ING MATER	RIAL	
P1 P1 P2 P3	(S)	SPGM11 SPGM11 SPS503 SPS503	6 7-1
P4		XZB50X	65B0
ACCE	SSORIES		
A1 (XB)		SQF131	88
A1 (E, EH	1)	SQF131	89
A1 (XL, E	K, XA)	SQF131	90



### 46 26 42 40 43 39 30 41 28 49 50 27 3148 29 82 70 74 75 76 79 76 84 76 75 7178 76 7676 75 73 77 78 73 76 73

# **■ REPLACEMENT PARTS LIST**

Notes: \* Important safety notice:

Components identified by \( \frac{\text{\text{Mark have special characteristics important for safety.}}\) When replacing any of these components use only manufacturer's specified parts.

\* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

\*"(\(\mathbb{K}\)" mark parts are used for black type only.

\*"(\(\mathbb{S}\)" mark parts are used for silver type only.

Parts other than "(\(\mathbb{K}\)" and "(\(\mathbb{S}\)" marked are used for all color types.

Ref. I	No.	Part No.	Description	Ref.	No.	Part No.	Description
CABINET AND CHASSIS		30	Δ	SJS9236	AC INLET		
1		SKUSB608-KE	BOTTOM BOARD ASS/Y		EH, EG)		
1-1		SKL313	F00T	(XA, X	B)		
3		SGP7160-1J	REAR PANEL	31		SJT30340LX-V	CONNECTOR(3P)
(EK)				31		SJT30543-V	CONNECTOR(5P)
3		SGP7160-1K	REAR PANEL	31		SJT30643-V	CONNECTOR(6P)
(XL)				31		SJT30843-V	CONNECTOR(8P)
3		SGP7160-1L	REAR PANEL	31		SJT31243-V	CONNECTOR(12P)
(XA, XB	)			33		SUB236-2	EJECT LEVER
3		SGP7160W	REAR PANEL	34		SUW3090	BRACKET
(E)				35		SGXSB505-KE1	CASSETTE HOLDER
3		SGP7160X	REAR PANEL	35-1		QBP2006A	SPRING
(EH, EG	)			36		SUS869	LEAF SPRING
	, Ø	SKC2111K99	CABINET BODY	38		SKJSB405-KE	GEAR
	Ś	SKC2111S98	CABINET BODY	39	⊗	SBD145	KNOB
	®	SGE1914	CASSETTE LID	39	S	SBD145-1	KNOB
	S	SGE1914-1	CASSETTE LID	40	•	SHRM9021	HOLDER(FL)
	<b>®</b>	SBC666-5	BUTTON, POWER	41		LN081444P	LED BLOCK ASS/Y
	S	SBC666	BUTTON, POWER	42		LN021315P1	LED BLOCK ASS/Y
	®	SYTM10ZC0A	KNOB	43		SHRM9021	HOLDER(FL)
	S	SYTM10ZS0A	KNOB	44		SJJ126B	JACK(HEADPHONES)
	፟ .	SBDM10ZK0A	KNOB	45		SJJ127HH	JACK
	S	SBDM10MA0A	KNOB	46		SUW3092	BRACKET
15	•	SUWSB608R-KE	BRACKET ASS/Y	48		QTD1333	CORD CLAMPER
16		SMQ30051	BRACKET	48		SHR301	CLAMPER
17		SUB268	ROD	51		SMP423	ANGLE
	<b>®</b>	SBC736-1	BUTTON	52		SHRM5010	PLASTIC SPACER
	S	SBC736	BUTTON	SCREV	VS WASH	ERS AND NUTS	
	Ø	SGWSB608-KE	FRONT PANEL ASS'Y	70	10.777.0171		CODEW
	Š	SGWSB608-SE	FRONT PANEL ASS'Y			XTB3+8J	SCREW
	®	SGXSB608-KE	FRONT GRILL ASS'Y	71 72		XTB3+6JFZ	SCREW
	Ś	SGXSB608-SE	FRONT GRILL ASS'Y	73		XTB3+6FFR	SCREW
24		SME103-4	SHIELD PLATE	74		XTB3+8JFZ XTB3+12JFR	SCREW SCREW
25		SMX897	COVER	75		XTB3+20J	SCREW
26		SVGLC204DLU1	LED(COUNTER)	76		XTBS3+10J	SCREW
27		EMCS1350ZL	SOCKET(13-P)	77			+ + · · · · ·
27		SJSD0805	CONNECTOR	78		XWA3B SHE187-2	WASHER HOLDER
27		SJT3319	CONNECTOR(3P)(3-P)	79		XNS8FZ	NUT
27		SJT3511	CONNECTOR(5P)(2-P)	80	<b>®</b>	SNE2129-1	SCREW .
28		SJS501	SOCKET(5P)	80	(S)	SNE2129-1	SCREW
29		SJF3057N	TERMINAL BOARD	82	9	XTS3+8JFZ	SCREW
	$\Phi$	SJSD16	AC INLET	83		SNE4021	NUT
(XL)				84		XWE3E10	WASHER
				85			
				I∞		XTB3+8JFR	SCREW

Ref.	No.	Part No.	Description	Ref. No.	Part No.	Description
PACKI	PACKING MATERIAL		A1	SQF13191	INSTRUCTION MANUAL	
P1	<b>®</b>	SPGM115	PACKING CASE	(EG)		
P1	S	SPGM116	PACKING CASE	A2	SJPK2202-1	CORD
P2	•	SPS5037-1	PAD	A3 A	SFDAC05G02	POWER CORD
P3		SPS5038-1	PAD	(EK)		
P4		XZB50X65B02	POLY SHEET	A3 🗘	SJA168	POWER CORD
ACCES	SORIES			(XA)		
A1		SQF13188	INSTRUCTION MANUAL	A3	SJA171	POWER CORD
(XB)				A3 A	SJA173	POWER CORD
A1		SQF13189	INSTRUCTION MANUAL	(XL)	SUNTIS	rowen cond
(E, EH	)			A3 A	SJA183	POWER CORD
A1		SQF13190	INSTRUCTION MANUAL	(XB)	337183	1 OWEN COMB
(XL, E	K, XA)			A4 A	RJP120ZBS-H	AC PLUG ADAPTOR
				(XA, XB)		

Cassette Deck

# Service Manual

db\*\*/Dolby NR Equipped
Stereo Cassette Deck

**RS-B608R** 

### Color

(S) ... Silver Type (K) ... Black Type

### Area

MI Ca		
Country Code	Area	Color
(E)	Continental Europe.	(K)(S)
(EK)	United Kingdom.	(K)(S)
(EG)	F.R. Germany.	(K)(S)
(EH)	Holland.	(K)(S)
(XA)	Asia, Latin America, Middle Near East, Africa and Oceania.	(K)(S)
(XL)	Australia.	(K)(S)
(XB)	Saudi Arabia.	(K)(S)

DOLBY B.C NR HX PRO

\* HX Pro headroom extension originated by Bang Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", the double-D symbol, and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

\*\* The term dbx is a registered trademark of dbx Inc.

Please file and use this supplement manual together with the service manual for Model No. RS-B608R, Order No. HAD8804111C8.

### Note:

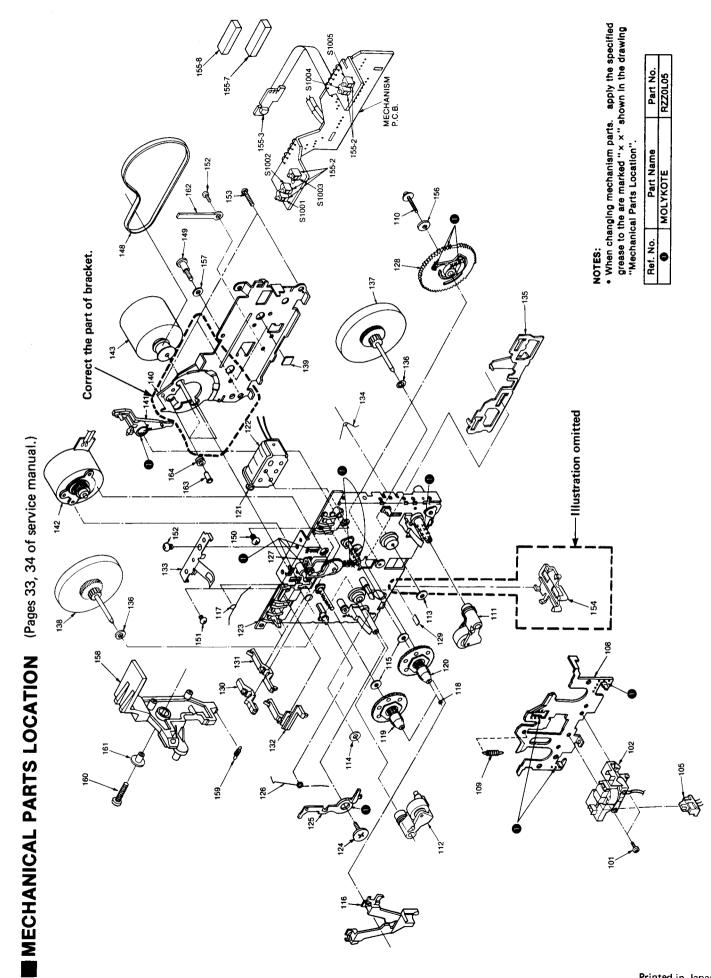
 This supplement has been issued to inform you that the correct an error in the "Mechanical Parts Location" on pages 33, 34 and "Replacement Parts List" on page 35.

# CORRECTION

# **REPLACEMENT PARTS LIST** (Page 35 of service manual.)

	Change	of Part No.		Remarks
Ref. No.	ORIGINAL	NEW	Part Name & Description	
CASSETTE D	DECK	1		
123	SMQA1257	SMQA1285	CHASSIS ASS'Y	Correction
158		SMQA1267-1	EJECT ARM	Addition
159	SMQA1267-1	SMQA1019	SPRING	Correction

- Continue -



ORDER NO. AD8907229S8

RS-B608R

Service Manual

Cassette Deck

dbx\*/Dolby NR Equipped
Stereo Cassette Deck

DOLBY B-C NR HX PRO

**RS-B608R** 

Color

(S) ... Silver Type (K) ... Black Type

Area

Color	Area
(S) (K)	(E) Continental Europe.
(S) (K)	(EK) United Kingdom.
(S) (K)	(EG) F.R. Germany.
(S) (K)	(EH) Holland.
(S) (K)	(XA) Asia, Latin
	America, Middle
	Near East, Africa
	and Oceania.
(S) (K)	(XL) Australia.
(S) (K)	(XB) Saudi Arabia.

**CORRECTION** 

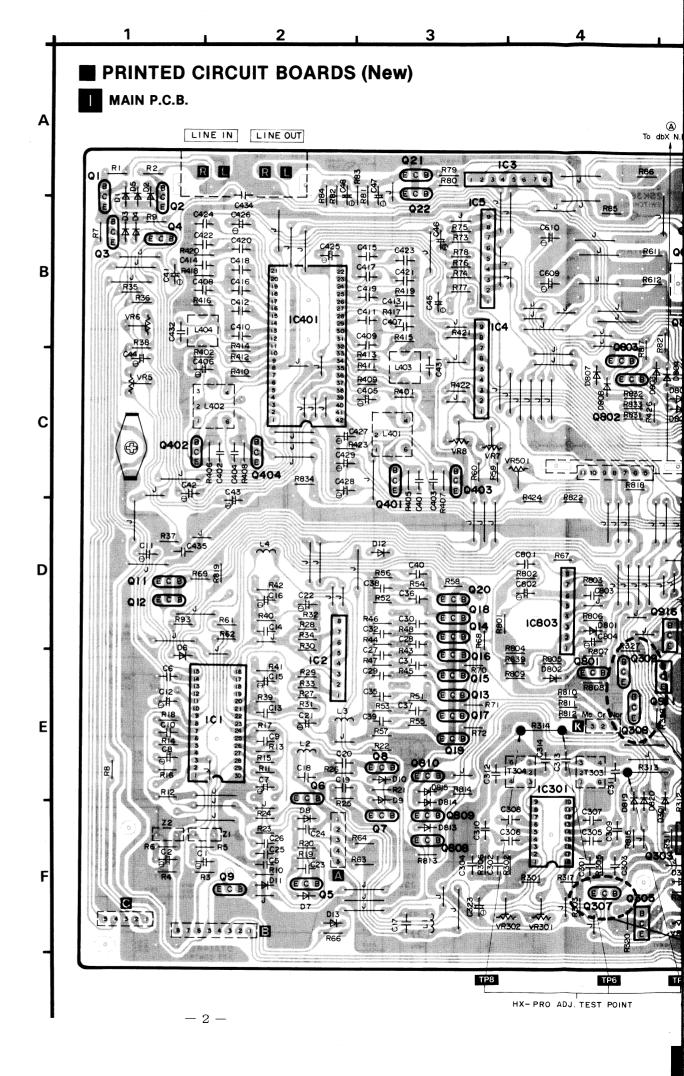
Please file and use this supplement manual together with the service manual for Model No. RS-B608R, Order No. HAD8804111C8.

- The schematic diagram of the RS-B608R on Page 22~25 of the Service Manual (Order No. HAD8804111C8) was changed. (Transistors Q307~Q309 were added.)
- •The replacement parts list on page 31 has not been modified.

**Technics** 

Matsushita Electric Industrial Co., Ltd.

Central P.O. Box 288, Osaka 530-91, Japan



RS-B608R



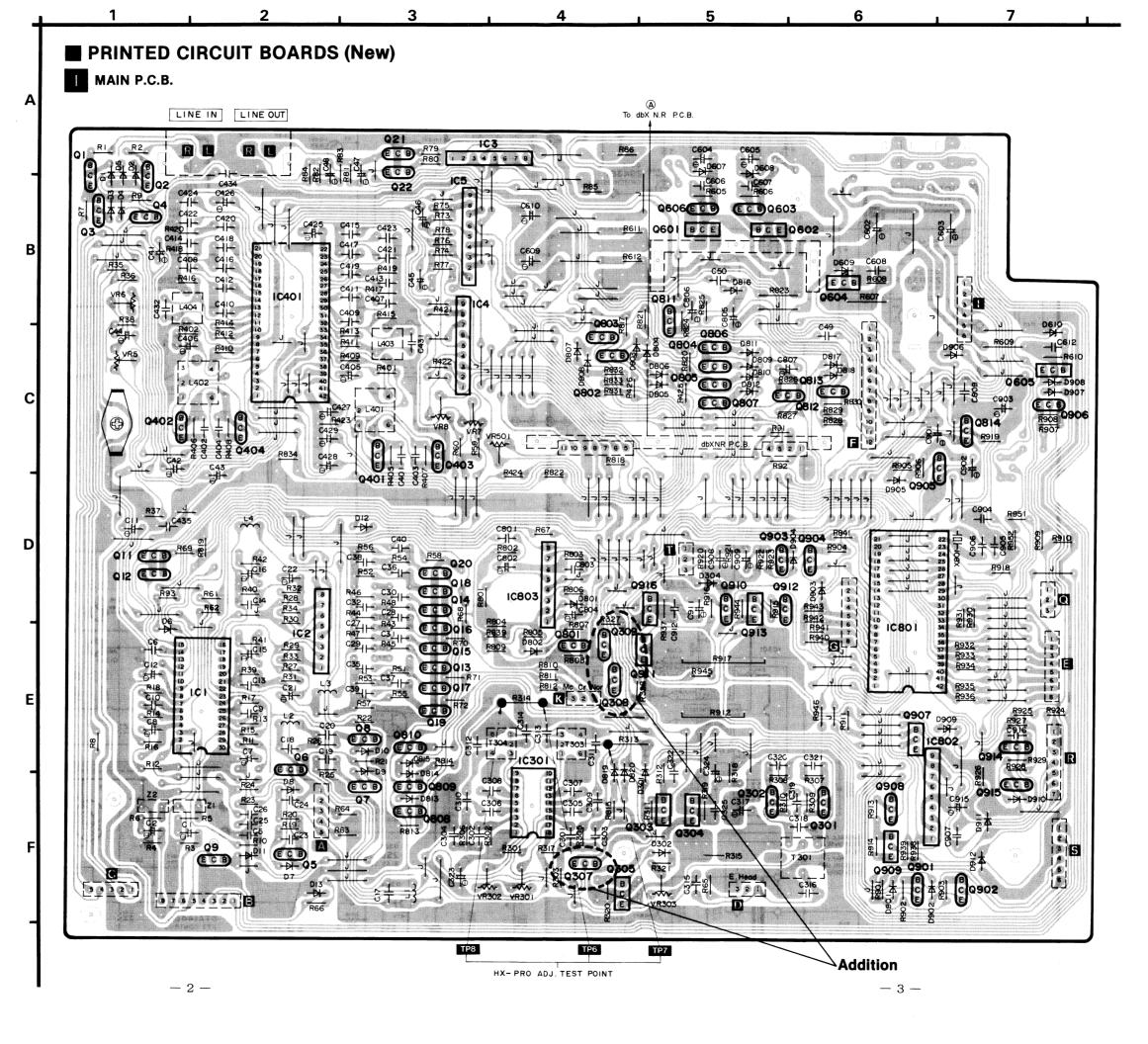
lor

S) ...Silver Type K) ...Black Type

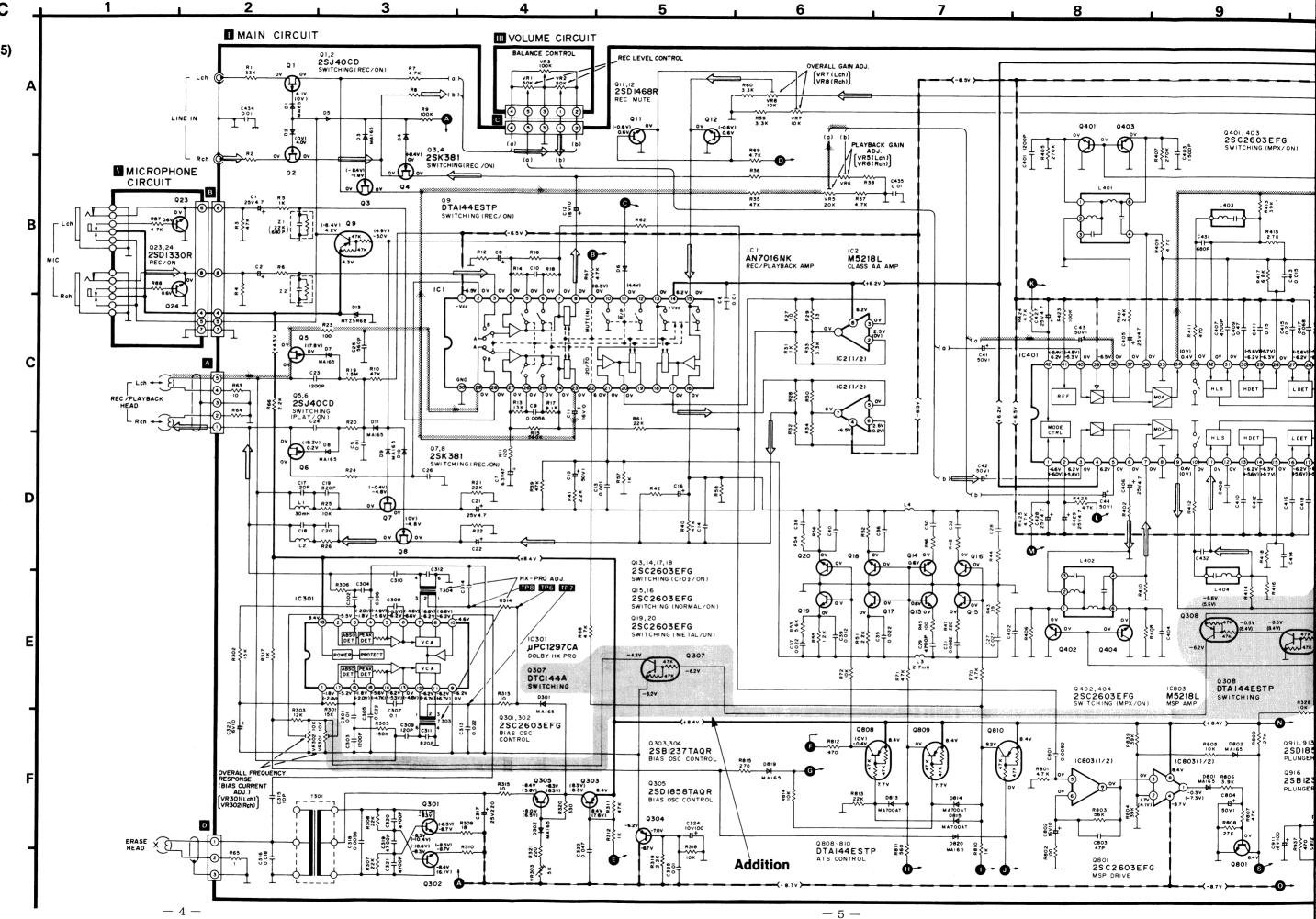
Area
Continental Europe.
Inited Kingdom.
C.R. Germany.
Iolland.
Isia, Latin
Imerica, Middle
Idear East, Africa
Ind Oceania.
Iustralia.

audi Arabia.

ndustrial Co., Ltd. 88, Osaka 530-91, Japan

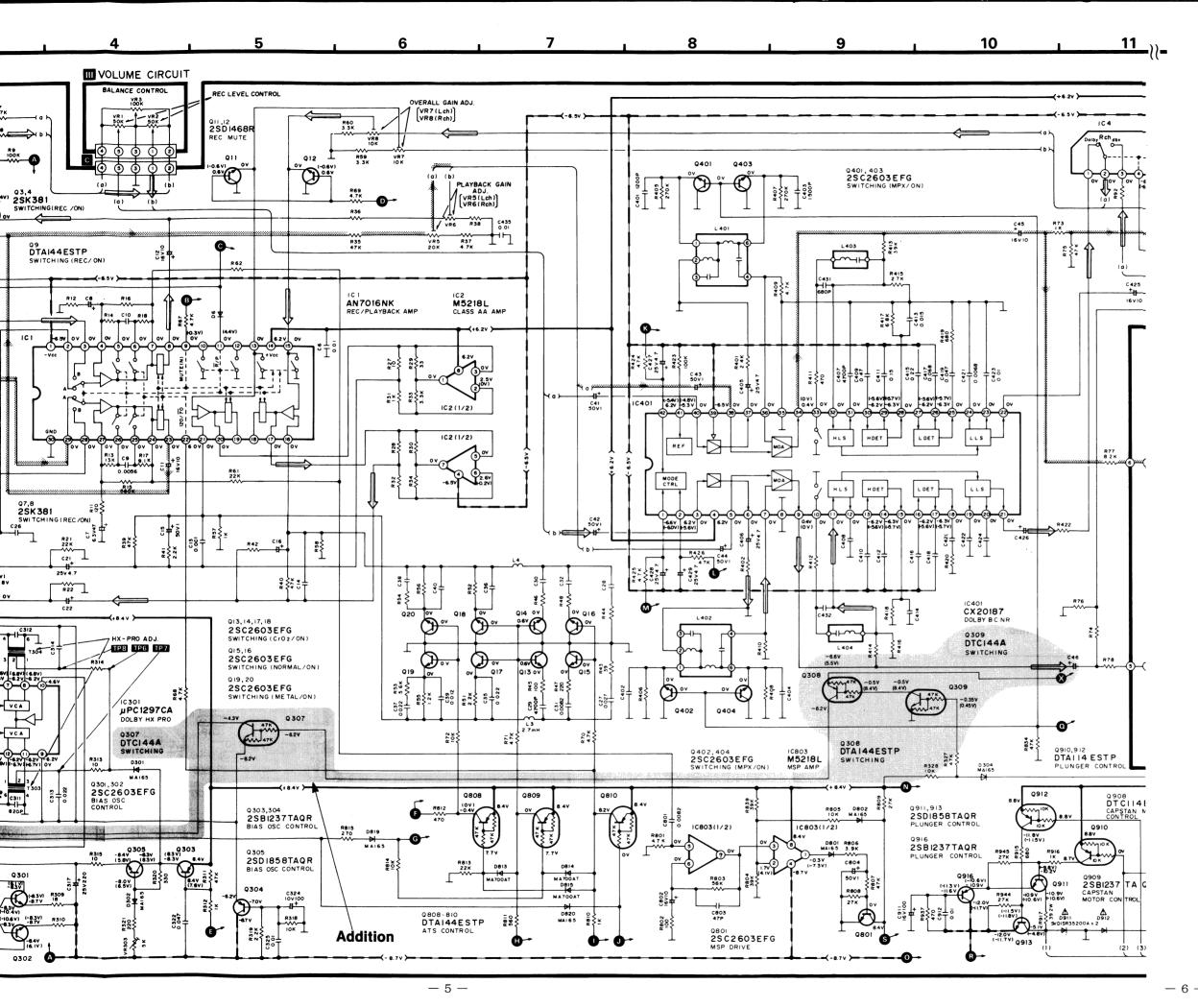


■ SCHEMATIC DIAGRAM (Page 22~24, 25)



Printed in Japan H890708200 MY

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# **FRANÇAIS**

# **METHODES DES MEASURES ET REGLAGES**

# Appareils de mesurage

- Voltmètre électronique
- Oscilloscope
- Compteur de fréquence numérique
- Oscillateur de fréquence audio

- A.T.T. (Atténuateur)
- Voltmètre à C.C.
- Résistance (600Ω)

# Reglage Azimutal de la tete

 Faire jouer la portion du réglage de l'azimuth (8kHz, -20dB) de la bande d'essai (QZZCFM). Ajuster la vis de la mise au point azimutale jusqu'à de que les sorties du canal de gauche et du canal de droite soient maximisées et que la forme d'onde de Lissajous, comme il est illustré, approche de 0 degré.

### Nota:

Si le canal de gauche et canal de droite ne sont pas maximisés au même point, régler le point où les niveaux de chaque canal sont maximiséset égaux.

2. Effectuer le même r&e 19 mglage sur le mode d'audition.

# Vérification de la différence de niveau pour les deux sens de rotation

- Introduire une bande métal vierge prévue pour les essais (QZZCPZ) et vérifier que la différence de niveau pour lés déux sens de rotation est inférieure à 1 dB.
- 4. Après cela, mettre une goutte de vernis de blocage sur la vis de réglage de l'azimut.

# Reglage de la Vitesse de Defilement

- Faire jouer la portion mèdiane de la bande d'essai (QZZCWAT).
- Régler le régulateur de tesnion dans le moteur detelle sorte que la sortie soit en deçà de la valeur standard.

# Reglage de L'amplification de Lecture

- Faire jouer la partie réglée de l'amplification (315 Hz, 0 dB) de la bande d'essai (QZZCFM).
- Régler VR5 (canal de gauche) et VR6 (canal de droite) de telle sorte que la sortie soit en deçà de la valeur standard.

# Reponse en Frequence de la Lecture

- Faier jouer la partie de la réponse en fréquence (315Hz, 12.5kHz, -63Hz, -20dB) de la bande d'essai (QZZCFM).
- S'assurer que la réponse en fréquence soit en deçà de la plage montrée dans la Fig. 6, à la fois pour le canal de gauche et le canal de droite.

**RS-B608R** 

**FRANÇAIS** 

# Reponse en Frequence Totale

- Introduire la bande d'essai vierge normale (QZZCRA) et régler l'appareil sur le mode d'intermission d'un disque.
- Appliquer un signal d'entrée de référence (1 kHz, -24 dB) par l'intermédiaire d'un atténuateur.
- Diminuer le signal de 20dB et régler la fréquence de 50Hz~15kHz.
- 4. Enregistrer le balayage de fréquence.
- Faire jouer le signal enregistré et s'assurer qu'il soit en deçà de la plage montrée à la Fig. 8 en comparaison à la fréquence de référence (1 kHz).
- S'II n'est pas en deçá de la plage standard, régler VR301 (canal de gauche) et VR302 (canal de droite) de telle sorte que le niveau de fréquence soit en deçá de la plage standard
- Répéter les étapes 2~6 ci-dessus en utilisant la band CrO<sub>2</sub> (QZZCRX) et la bande métallisée (QZZCRX) en augmentant la plage de fréquence à 16 kHz (50 Hz~16 kHz).
- S'assurer que le niveau soit en deçà de la plage montréeà la Fig. 9.

# Reglage de L'amplification Totale

- Introduire la bande d'essai vierge normale (QZZCRA) et régler l'appareil sur le mode d'intermission d'un disque.
- Appliquer un signal d'entrée de référence (1kHz, -24dB). Diminuer la sortie de telle sorte que son niveau devienne de 0.4V.
- 3. Enregistrer ce signal d'entrée.

- 4. Faire jouer le signal enregistré à l'étape 3 ci-dessus, et s'assurer que la sortie en deçè de la valeur standard.
- Si elle n'est pas en deçà de la valeur standard, régler VR7 (canal de gauche) et VR8 (canal de droite).
- Répéter les étapes 2~5 ci-dessus jusqu'à ce que la sortie soit en deçà de la valeur standard.

# Reglage du Mesureur Fluorescent

- Introduire la bande d'essai vierge normale (QZZCRA) et appliquer un signal d'entrée de référence (1 kHz, -24 dB) sur le mode d'intermission d'un disque.
- En utilisant un atténuateur, le régler jusqu'à ce que la tension des bornes "LINE OUT" (sortie de ligne) des platines de magnétophones soit de 0.4V.
- 3. Ajuster VR701 de telle sorte que le segment "0dB" soit légèrement éclairé.

# Réglage de la synohronisation dbx

- Placer l'interrupteur du réducteur de bruit sur la position dbx.
- Lire la partie de la bande d'essai (QZZCFM) qui contient l'enregistrement prévu pour le réglage du gain.
- 3. Brancher un voltmètre entre TP501 et TP502.
- 4. Régler **VR501** de manière que la sortie ait la valeur standard.

# Réglage de HX-PRO

- Introduire une bande métal vierge prévue pour lee essais (QZZCRZ) et régler l'appareil en mode pause d'enregistrement.
- Brancher un voltmètre continu entre TP-7 (L-CH) et TP-6, et TP-8 (R-CH) et TP-6.
- Régler L303 (L-CH) et L-304 (R-CH) de manière que la sortie ait la valeur standard.

**ESPAÑOL** 

# **ESPAÑOL**

# METODOS DE AJUSTE Y MEDIDA

### Instrumento de medición

- EVM (Voltimetro electrónico)
- Osciloscopio
- Frecuencimetro digital
- Oscilador AF

- ATT (Atenuador)
- Voltimetro CC
- Resistor (600Ω)

# Ajuste Azimutal de Cabeza

 Reproducir la porción de ajuste azimutal (8kHz, -20dB) de la cinta de prueba (QZZCFM). Variar el tornillo de ajuste azimutal hasta que las salidas del CH-I y CH-D se maximicen y forma de onda de lissajous, como ilustrado, se acerque a grado 0.

## Nota:

- Si CH-l y CH-D no son maximizados en el mismo punto, ajustar al punto donde los niveles de cada canal sean maximizados e igualados.
- Efectuar el mismo ajuste en la modalidad de reproducción.

# Comprobación de la diferencia de nivel de giro hacia adelante y hacia atrás

- Reproduzca la parte del adjuste de ganancia (315 Hz, 0dB) de la cinta de prueba (QZZCFM) y luego asegúrese de que la diferencia de nivel de giro hacia adelante y hacia atrás sea menor que 1 dB.
- Dcspués del ajustc, aplique pintura de fijación al tornillo de ajuste del azimut.

# Ajuste de Velocidad de Cinta

- 1. Reproducir la porción de la cinta prueba (QZZCWAT).
- Ajustar el VR en el motor de manera que salida esté dentro del valor estándar.

# Ajuste de Ganancia de Reproduccion

- Reproducir la porción ajustada de ganancia (315 Hz, 0 dB) de la cinta de prueba (QZZCFM).
- Ajustar VR5 (CH-I) y VR6 (CH-D) de manera que la salida esté dentro del valor estándar.

# Respuesta de Frecuencia de Reproduccion

- Reproducir la parte de respuesta de frecuencia de reproducción (315Hz, 12.5kHz~63Hz, -20dB) de la cinta de prueba (QZZCFM).
- Asegurarse de que la respuesta de frecuencia esté dentro de la gama mostrada en la Fig. 6 para ambos CH-I y CH-D.

# Respuesta de Frecuencia Total

- Poner una cinta virgen normal (QZZCRA) y poner la unidad en la modalidad de Pausa de Grabación.
- 2. Aplicar la señal de entrada de referencia (1 kHz, -24 dB) a través de un atenuador.
- 3. Atenuar la señal por 20 dB y ajustar la frecuencia de  $50\,\mathrm{Hz}{\sim}15\,\mathrm{kHz}.$
- 4. Grabar el barrido de frecuencia.
- Reproducir la señal grabada y asegurarse de que esté dentro de la gama mostrada en la Fig. 8 en comparación con la frecuencia de referencia (1kHz).
- Si no está dentro de la gama de frecuencia, ajustar VR301 (CH-I) y VR302 (CH-D) de manera que el nivel de frecuencia esté dentro de la gama estándar.
- Repetir los pasos 2~6 de arriba utilizando la cinta CrO<sub>2</sub> (QZZCRX) y la cinta metálica (QZZCRZ) incrementando la gama de frecuencia a 16kHz (50Hz~16kHz).
- Asegurarse de que el nivel est\u00e3e 19 mdentro de la gama mostrada en la Fig. 9.

# Ajuste de Ganancia Total

- Insertar la cinta de prueba en blanco normal (QZZCRA) y poner la unidad en modalidad de pausa de Grabación.
- Aplicar la señal de entrada de referencia (1kHz, -24dB). Atenuar la salida de manera que su nivel se haga 0.4V.
- 3. Grabar la señal de entrada.

- Reproducir la señal grabada en el paso 3 de arriba y asegurarse de que la salida esté dentro del valor estándar.
- Si no está dentro del valor estándar, ajustar VR7 (CH-I) y VR8 (CH-D).
- Repetir el paso 2~5 de arriba hasta que la salida esté dentro del valor estándar.

# Ajuste de Medidor de Fluorescente

- Insertar la cinta de prueba en blanco normal (QZZCRA) y aplicar una señal de entrada de referencia (1 kHz, -24 dB) en la modalidad de Pausa de Grabación.
- Utilizando un atenuador, ajustarlo hasta que la tensión de los terminales "LINE OUT" (salida de linea) de las platinas de cinta sea 0.4V.
- 3. Ajustar VR701 de manera que el segmento "0dB" esté ligeramente iluminado.

# Ajuste de la Sincronizacion dbx

- Ponga el conmutador de reducción del ruido en la posición dbx.
- Reproduzca la parte del ajuste de ganancia (315 Hz, 0 dB) de la cinta de prueba (QZZCFM).
- 3. Conecte un voltimetro de CC cntre TP501 y TP502.
- Regule VR501 de modo que la salida esté dentro de los valores estándares.

# Ajuste de HX-PRO

- Inserte la cinta de prueba metálica en blanco (QZZCRZ) y ponga el aparato en la modalidad de pausa de grabación.
- Conecte un voltimetro de CC entre TP7 (L-CH) y TP6, TP8 (R-CH) y TP6.
- Regule L303 (L-CH) y L304 (R-CH) de modo que la salida esté dentro de los valores estándares.

Printed in Japan H880401430MY/MT

# **Cassette Deck**

# **RS-B608R**

# **DEUTSCH**

# **MESSUNGEN UND EINSTELL METHODEN**

### **MeBinstrumente**

- Elektronisches Voltmeter (EVM)
- Oszilloskop
- Digitaler Frequenzmesser
- Audiofrequenz-Oszillator

- Dämpfungswiderstand
- Gleichstrom-Voltmeter
- Widerstand (600Ω)

# Tonkopf-Azimuteinstellung

 Spielen Sie auf dem Testband (QZZCFM) den Teil für die Azimuteinstellung (8kHz, -20dB) ab. Drehen Sie die Azimuteinstellschraube so lange, bis die Abgaben des L-K und R-K den Höchstwert erreichen, und die Lissajossche wellenfigur sich, wie abgebildet, 0 Grad nähert.

### Anmerkung:

When L-K und R-K nicht auf demselben Punkt ihren Höchstwert erreichen, stellen Sie beide Kanäle auf den jeweiligen Höchstwert und gleichen dann aus.

2. Nehmen Sie denselben Einstellvorgang in der Wiedergabestellung vor.

# Prüfung des Pegelunterschiedes bei Vorwärtsund Rückwärtsdrehung

- Den Abschnitt für Verstärkungseinstellung (315 Hz, 0dB) des Prüfbandes (QZZCFM) wiedergeben und sicherstellen, daß der Pegelunterschied bei Vorwärtsund Rückwärtsdrehung kleiner als 1dB ist.
- Nach der Einstellung Schrauben-Sicherungsmittel an die Azimuth-Einstellschraube geben.

# Bandgeschwindigkeitseinstellung

- 1. Spielen Sie den Mittelteil des Testbands (QZZCWAT) ab.
- Stellen Sie den VR im Motor so ein, daß die Abgabe den Normwert erfüllt.

# Einstellung der Wiedergabeverstärkungsregelung

- Spielen Sie auf dem Testband (QZZCFM) den Teil für die Einstellung der Verstärkungsregelung (315 Hz, 0dB) ab.
- Stellen Sie VR5 (L-K) und VR6 (R-K) so ein, daß die Abgabe den Normwert erfüllt.

# Wiedergabefrequenzaang

- Spielen Sie auf dem Testband (QZZCFM) den Teil für den Frequenzgang (315Hz, 12,5kHz~63Hz, -20dB) ab.
- Achten Sie darauf, daß der Frequenzgang für beide Kanäle (L-K, R-K) in dem in Abb. 6 gezeigten Bereich liegt.

# Gesamtfrequenzgang

- Legen Sie das normale Leertestband (QZZCRA) ein und stellen das Gerät auf Aufnahme-/Pause-Betrieb.
- Geben Sie über einen Lautstärkeregler ein Bezugseingabesignal (1 kHz, -24dB) ein.
- Stellen Sie das Signal auf 20dB und justieren die Frequenz von 50 Hz~15 kHz.
- 4. Nehmen Sie das Wobbelsignal auf.
- Geben Sie das aufgenommene Signal wieder und achten darauf, daß dieses sich im Vergleich zur Bazugsfrequenz (1kHz) in dem in Abb. 8 aufgezeichneten Bereich befindet.
- Sollte das Signal nicht im Normbereich liegen, justieren Sie VR301 (L-K) und VR302 (R-K) so, daß der Frequenzpegel mit der Norm übereinstimmt.
- Wiederholen Sie die Schritte 2~6 und verwenden das CrO<sub>2</sub> Band (QZZCRX) und das Metallband (QZZCRZ). Der Frequenzbereich wird auf 16kHz (50Hz~16kHz) angehoben.
- Achten Sie darauf, daß sich der Frequenzpegel in dem in Abb. 9 aufgezeigten Bereich befindet.

# Einstellung der Gesamtverstärkungsregelung

- Legen Sie das normale Leertestband (QZZCRA) ein und stellen das Gerät auf Aufnahme-/Betrieb.
- Legen Sie ein Bezugseingabesignal (1kHz, -24dB) an. Stellen Sie das Ausgangssignal auf einen Pegel von 0.4V ein.
- 3. Nehmen Sie das Eingabesignal auf.

- Geben Sie das in Schritt 3 oben aufgenommene Signal wieder und achten Sie darauf, daß das Ausgangssignal mit dem Normwert übereinstimmt.
- Sollte der Wert nicht innerhalb der Norm liegen, justieren Sie VR7 (L-K) und VR8 (R-K).
- Wiederholen Sie die Schritte 2~5 von oben so lange, bis das Ausgangssignal im Normbereich liegt.

# Fluoreszenzanzeigeneinstellung

- Legen Sie das normale Leertestband (QZZCRA) ein und geben bei Aufnahme-/Pause-Betrieb ein Bezugseingabesignal (1kHz, -24dB) ein.
- Verwenden Sie einen Lautstärkeregler und stellen Sie diesen so ein, daß an den "LINE OUT"-Anschlüssen des Kassettendecks 0.4V anliegen.
- Justieren Sie VR701 so, daß der "-0dB"-Abschnitt der Anzeige schwach auflenuchtet.

# dbx TAKTEINSTELLUNG

- 1. Den Rauschunterdrückungs-Schalter auf dbx stellen.
- Den Abschnitt für Verstärkungseinstellung (315 Hz, 0dB) des Prüfbandes (QZZCFM) wiedergeben.
- Einen Gleichstrom-Voltmeter zwischen TP501 und TP502 anschließen.
- 4. VR501 so einstellen, daß der Ausgang dem Sollwert entspricht.

# **HX-PRO EINSTELLUNG**

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- Die leere Metallband-Prüfkassette (QZZCRZ) einsetzen und das Gerät auf Aufnahmepause schalten.
- Einen Gleichstrom-Voltmeter zwischen TP7 (linker Kanal) und TP6 sowie zwischen TP8 (rechter Kanal) und TP6 anschließen.
- L303 (linker Kanal) und L304 (rechter Kanal) so einstellen, daß der Ausgang dem Sollwert entspricht.